Nationwide House Energy Rating Scheme* — Class 2 summary

Certificate Number: 0MAX4RX4SR

Date of Certificate: 6 Jun 2019





Assessor details

Accreditation	VIC/BDAV/14/1658
number.	VIC/BDAV/14/1030
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5 v5.2.10b
AAO:	BDAV

Dwelling details

Address: Suburb: State: Postcode: 26 Whistler Street MANLY NSW 2095

Summary of all dwellings

Average rating NATION WIDE HOUSE ENERGY RATING SCHEME
The rating listed above is the average of all units in this building.
For more information on your dwelling's rating see: www.nathers.gov.au

Certification details

	Annual thermal performance loads (MJ/m2)					
Certificate number	Unit number	Heating load	Cooling load	Total load	Star rating	
IB97S9GUWI	102	38.1	18.1	56.2	5.6	
66BVWOLYT8	102	44.2	11.4	55.6	5.7	
R5RY8MPGRX	103	33.2	20.5	53.7	5.8	
G4LZG9E5U7	104	43.6	18.7	62.3	5.2	
EV8KUAVVOH	105	12	16.3	28.3	7.8	
YIUA6AOMWJ	106	34.7	19.7	54.4	5.8	
PEOL931SYU	107	30.3	17.3	47.6	6.3	
Q7AT0WRPAC	108	34.9	23	57.9	5.5	
VGRKLUYD0Z	201	15.3	16.4	31.7	7.5	
5XUICYZTLM	202	16.6	22.5	39.1	6.9	
TVF7GJYSWT	203	11.6	23.2	34.8	7.3	
NPNC9JWD9O	204	24.4	21.5	45.9	6.4	
FX18Y2N1RB	205	13.5	14.6	28.1	7.8	
78DYSAAUDC	206	38.1	20.3	58.4	5.4	
6FQHMQKRJ3	207	33.6	16.8	50.4	6.1	
CVT6H53GIO	208	22.5	26.2	48.7	6.2	

Nationwide House Energy Rating Scheme* — Class 2 summary

Certificate Number: 0MAX4RX4SR

Date of Certificate: 6 Jun 2019

★ Average star rating: 6.6



Summary of all dwellings continued

Certification details continued Annual thermal performance loads (MJ/m2) **Certificate number Unit number Total load Heating load Cooling load** Star rating 80KFNFQZAZ 301 22.6 29.3 51.9 5.9 TQ57SCWA33 302 16.6 18.4 35 7.3 W27XLFKWM0 303 18.5 19.4 37.9 7.1 142J98JK3F 304 25.7 20.2 45.9 6.4 V2JL89NDSH 305 13.2 14 27.2 7.9 190ZKLZVE9 306 35.4 16.3 51.7 5.9 EHIXSEM764 307 23.9 24.6 48.5 6.2 DPRV7CCY0F 401 7.3 20.8 28.1 7.8 S3Y6YQA67W 402 19.9 28.6 48.5 6.2 ZOO3BNTV23 403 24.7 21.4 46.1 6.4 WQGYD43H8J 404 13.8 13.3 27.1 7.9 405 KK36MNI569 36.6 15.7 52.3 5.9 KUE1QLSM9C 406 24.9 24 6.2 48.9 Y8KDINLL2G 501 17.3 17 34.3 7.3 **OGYYM4AWRW** 502 15.6 44.4 6.6 28.8 9DR1S65W1Z 503 18.7 21.7 40.4 6.9 504 7.3 FVFK03DJOU 20.6 14.9 35.5 DNG78LA1QZ 601 15.5 20.3 35.8 7.2 7.1 JVPHUSFE8L 602 16 21.5 37.5 MZC4F2AO8S 603 19.2 22 41.2 6.8 5EGBPTG8ZH 604 28.3 15 6.6 43.3 E7FH4EBFOJ 701 24.6 19.6 44.2 6.6 702 NQ2EQSHOY1 28.6 21 49.6 6.1 703 7.4 65UQBBQG9S 21.5 12.2 33.7 KL95VSNNH0 704 36.8 5.9 15.1 51.9 This building achieves an average star rating of: 6.6

Certificate Number: 5EGBPTG8ZH

Date of Certificate: 6 Jun 2019

★ Star rating: 6.6



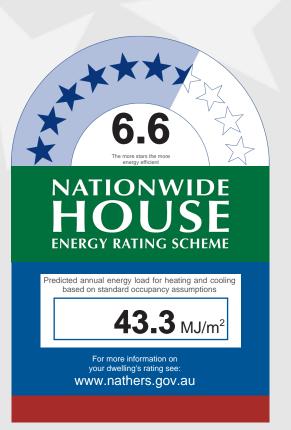
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	604, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Type:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	open		



Key construction	and	insulation	materials
(see following pages for	r dota	ile)	

(see following pages for details)

Construction:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Insulation:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Glazing:	As inc	licated
	As inc	dicated

Ceiling	penetrations
coo follo	wing pages for

(see following pages for details)

Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Net floor area (m²)	Annual thermal performance loads (MJ/m ²)	
Conditioned: Unconditioned:	105 4.4		
Garage:	-	Heating:	28
TOTAL:	109.4	Cooling:	1

TOTAL:

Plan documents

Plan ref/date: Project No. 21813 Prepared by: Wolski Coppin Architecture

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

If any of the windows selected are outside the 5% tolerance then this certificate is no longer valid and the

dwelling will need to be rerated to confirm compliance.

Scan to access this certificate online and confirm this is valid.



https://www.fr5.com.au/QRCodeLand ing?PublicId=5EGBPTG8ZH

28.3

43.3

15

Certificate Number: 5EGBPTG8ZH

Date of Certificate: 6 Jun 2019

★ Star rating: 6.6



Building Features

Windows type and performance value				
Window ID	Window type	U-value	SHGC	
ALM-002-01 A	6.7	0.7		

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	Opening 69	2100	678	ESE	Bedroom 1	No
ALM-002-01 A	Opening 67	2100	2967	SSW	Bedroom 1	No
ALM-002-01 A	Opening 86	2100	1160	SSW	Bedroom 1	No
ALM-002-01 A	Opening 70	2100	1800	SSW	Bedroom 2	No
ALM-002-01 A	Opening 71	2100	1500	ESE	Bedroom 2	No
ALM-002-01 A	Opening 66	2100	400	WNW	Bedroom 3	No
ALM-002-01 A	Opening 65	2100	1200	SSW	Bedroom 3	No
ALM-002-01 A	Opening 68	2100	400	WNW	Ensuite 1	No
ALM-002-01 A	Opening 85	2100	1502	SSW	Ensuite 1	No
ALM-002-01 A	Opening 72	2100	820	SSW	Kitchen/Living	No
ALM-002-01 A	Opening 74	2100	3660	ESE	Kitchen/Living	No
ALM-002-01 A	Opening 75	2100	922	NNE	Kitchen/Living	No

ID	Window type				U-value	SHGC
Roof window	and skylight schedule					
ID	Roof window/ skylight	no. Area (m²	²) Orientatio	on Zone name		Indoor shade diffuser
External wall	type					
Туре		Insulation				Wall wrap
1 : AFS - AFS 162mm (75mm Glasswool)		Rockwool batt (k = 0.033) (R2.3)				No
1 : AFS - AFS 1						
External wall	, , , , , , , , , , , , , , , , ,					
External wall	, , , , , , , , , , , , , , , , ,	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
External wall Wall type	, , , , , , , , , , , , , , , , ,	Area (m ²) 5.6	Orientation ESE	Zone name Bedroom 1	Fixed shade Yes	Eaves Yes
External wall Wall type 1 : AFS - AFS 1	schedule					

Certificate Number: 5EGBPTG8ZH

Date of Certificate: 6 Jun 2019

★ Star rating: 6.6



Building Features

1 : AFS - AFS 162mm (75mm Glasswool)	9.5	ESE	Bedroom 2	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	9.8	WNW	Bedroom 3	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	3.4	SSW	Bedroom 3	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	0.8	NNE	Bedroom 3	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	2.2	WNW	Ensuite 1	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	0.8	SSW	Ensuite 1	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	1.5	WNW	Ensuite 1	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	4.2	SSW	Ensuite 1	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	3.3	WNW	Bath	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	6.6	NNE	Bath	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	1.1	WNW	Entry	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	0.8	SSW	Entry	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	4.3	WNW	Entry	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	3.1	SSW	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	11.3	ESE	Kitchen/Living	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	9.7	NNE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	12.5	NNE	Kitchen/Living	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.5	WNW	Kitchen/Living	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	0.5	NNE	Kitchen/Living	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	92.4	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	FR5 - 150mm concrete slab Lined	14.9	Enclosed	R0.0	Carpet
Bedroom 2	FR5 - 150mm concrete slab Lined	15.8	Enclosed	R0.0	Carpet
Bedroom 3	FR5 - 150mm concrete slab Lined	13.6	Enclosed	R0.0	Carpet
Ensuite 2	FR5 - 150mm concrete slab Lined	3.4	Enclosed	R0.0	Tiles
Ensuite 1	FR5 - 150mm concrete slab Lined	4.8	Enclosed	R0.0	Tiles
Hallway	FR5 - 150mm concrete slab Lined	4.1	Enclosed	R0.0	Tiles
Bath	FR5 - 150mm concrete slab Lined	4.4	Enclosed	R0.0	Tiles
Entry	FR5 - 150mm concrete slab Lined	3.5	Enclosed	R0.0	Tiles

Certificate Number: **5EGBPTG8ZH**

Date of Certificate: 6 Jun 2019

★ Star rating: 6.6



Building Features

Kitchen/Living	FR5 - 150mm concrete slab Lined	45	Enclosed	R0.0	Tiles
Ceiling type					
Location	Material			Added insulation	Roof space above
Ceiling penetra	tions				
Location	Number Type		Width (mm)	Length (mm)	Seal/ unsealed
Ceiling fans					
Location	Number Diameter (mm)				
Roof type					
Material				Added insu	Ilation Roof colour
Slab:Slab - Suspe	nded Slab : 150mm: 150mm Suspended	Slab		0.0	medium

Certificate Number: 5EGBPTG8ZH

Date of Certificate: 6 Jun 2019

★ Star rating: 6.6



Additional information

Explanatory notes

About this report

Residential energy ratings address the quality of the building fabric i.e. walls, windows, floors and roof/ceilings. Ratings do not cover the energy or water efficiency of appliances including heating and cooling, hot water, dishwashers, ovens, fridges, TVs etc. or solar panel or water tank requirements. The efficiency or specification of these items is generally covered by other regulations, standards or guidelines.

General Information

A NatHERS House Energy Rating is a comprehensive, dynamic computer modelling evaluation of the floorplans, elevations and specifications to predict an energy load of a home. Not all of us use our homes in the same way, so ratings are generated using standard assumptions. This means homes can be compared across the country.

The actual energy consumption of your home may vary significantly from the predicted energy load figures in this report depending on issues such as the size of your household and your personal preferences, e.g. in terms of heating or cooling.

While the figures are an indicative guide to energy use, they can be used as a reliable guide for comparative purposes between different house designs and for demonstrating that the design meets the required regulatory compliance.

Homes that are energy efficient use less energy, are warmer in winter, cooler in summer and cost less to run. The higher the star rating the more energy efficient.

This NatHERS House Energy Rating report was carefully prepared by your assessor on the basis of comprehensive modelling using standard procedures to rate your home using an underlying engine developed by the Australian Commonwealth Scientific and Industrial Research Organisation (CSIRO).

All information relating to energy loads presented in this report is based on a range of standard assumptions in order to allow for comparisons with reports prepared for other homes and to demonstrate minimum regulatory compliance. The standard assumptions include figures for occupancy, indoor air temperature and are based on a unique climate file for your region.

Accredited Assessors

To ensure you get a high-quality, professional NatHERS House Energy Rating report, you should always use an accredited assessor, accredited assessors are members of a professional body called an Assessor Accrediting Organisation (AAO).

AAOs have specific quality assurance processes in place and continuing professional development requirements to maintain a high and consistent standard of assessments across the country. Non-accredited assessors do not have this level of quality assurance or any on-going training requirements.

If you have any questions or concerns about this report, please direct them to your assessor in the first instance.

If your assessor is unable to address your questions or concerns, please contact their AAO listed under 'assessor details'. You can also find a range of information about accredited assessors on the AAO websites.

Disclaimer

The energy values quoted are for comparison purposes only; they are not a prediction of actual energy use. This rating only applies to the floor plan, construction details, orientation and climate as submitted and included in the attached drawing set that bears a stamp with the same number as this certificate. Changes to any of these details could affect the rating.

Contact

For more information on the Nationwide House Energy Rating Scheme (NatHERS), visit www.nathers.gov.au For more information on energy efficient design and insulation visit www.yourhome.gov.au

Certificate Number: 5XUICYZTLM

Date of Certificate: 6 Jun 2019

★ Star rating: 6.9



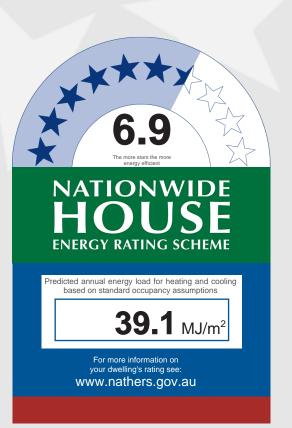
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	202, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Туре:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		



Key construction and insulation materials

(see following pages for details)

Net floor area (m²)

Conditioned:

Garage:

TOTAL:

Unconditioned:

Plan documents

Plan ref/date:

Prepared by:

Construction:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Insulation:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Glazing:	As inc	licated
	As inc	licated

84.4

1.8

86.2

Ceiling penetrations

(see following pages for details)

Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

If any of the windows selected are outside the 5% tolerance then this certificate is no longer valid and the

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https://www.fr5.com.au/QRCodeLand ing?PublicId=5XUICYZTLM

Annual thermal

 (MJ/m^2)

Heating:

Cooling:

TOTAL:

Wolski Coppin Architecture

Project No. 21813

performance loads

16.6

22.5

39.1

Certificate Number: 5XUICYZTLM

Date of Certificate: 6 Jun 2019

★ Star rating: 6.9



Building Features

Windows type and performance value					
Window ID	Window type	U-value	SHGC		
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7		

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	bae 1	2100	1600	WNW	Bedroom 1	No
ALM-002-01 A	bad 2	2100	2620	WNW	Bedroom 2	No
ALM-002-01 A	balcony	2100	2700	NNE	Kitchen/Living	No
ALM-002-01 A	living	2100	1800	WNW	Kitchen/Living	No

Roof windows and skylight type and performance value								
ID	Window type				U-value	SHGC		
Roof window and	skylight schedule							
ID	Roof window/ skylight no.	Area (m ²)	Orientation	Zone name		Indoor shade/ diffuser		

External wall type

Туре	Insulation	Wall wrap
1 : AFS - AFS 200mm (75mm Glasswool)	Rockwool batt (k = 0.033) (R2.3)	No

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : AFS - AFS 200mm (75mm Glasswool)	1.4	WNW	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.7	NNE	Bedroom 1	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	4.4	WNW	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.7	SSW	Bedroom 1	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	2.1	WNW	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	9.5	SSW	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	10.2	NNE	Bedroom 2	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	7.9	WNW	Bedroom 2	Yes	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	7.9	ESE	Bedroom 2	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	5.8	SSW	bath	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.8	NNE	laundry	No	No

Certificate Number: 5XUICYZTLM

Date of Certificate: 6 Jun 2019

★ Star rating: 6.9



Building Features

1 : AFS - AFS 200mm (75mm Glasswool)	3.4	SSW	laundry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.8	ESE	laundry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	4.1	ESE	entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	14.5	SSW	Hall way	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.6	ESE	Hall way	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	6.4	NNE	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.5	WNW	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	7.8	NNE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	2.4	WNW	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.6	NNE	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	5	WNW	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.7	SSW	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	2.7	WNW	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	1.4	ESE	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	8.6	NNE	study	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.7	SSW	study	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	4.7	ESE	study	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	96.8	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	FR5 - 150mm concrete slab	10.6	Enclosed	R0.0	Carpet
Bedroom 2	FR5 - 150mm concrete slab	11	Enclosed	R0.0	Carpet
ensuite	FR5 - 150mm concrete slab	3.3	Enclosed	R0.0	Tiles
dressing	FR5 - 150mm concrete slab	3.6	Enclosed	R0.0	Carpet
bath	FR5 - 150mm concrete slab	3.5	Enclosed	R0.0	Tiles
laundry	FR5 - 150mm concrete slab	1.8	Enclosed	R0.0	Tiles
entry	FR5 - 150mm concrete slab	4.2	Enclosed	R0.0	Tiles
Hall way	FR5 - 150mm concrete slab	7.2	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 150mm concrete slab	34.6	Enclosed	R0.0	Tiles
study	FR5 - 150mm concrete slab	6.3	Enclosed	R0.0	Carpet

Certificate Number: 5XUICYZTLM

Date of Certificate: 6 Jun 2019

★ Star rating: 6.9



Building Features

Ceiling type				
Location	Material		Added insulation	Roof space above
Ceiling penetration	ons			
Location	Number Type	Width (mm)	Length (mm)	Seal/ unsealed
Ceiling fans				
Location	Number Diameter (mm)			
Roof type				
Material			Added insu	lation Roof colour
Slab:Slab - Suspend	led Slab : 150mm: 150mm Suspended S	Slab	0.0	medium

Certificate Number: 5XUICYZTLM

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★ Star rating: 6.9



Additional information

Explanatory notes

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Certificate Number: 6FQHMQKRJ3

Date of Certificate: 6 Jun 2019

★ Star rating: 6.1



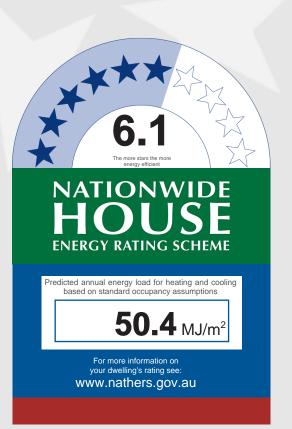
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	207, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Туре:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		



Key construction and insulation materials

(see following pages for details)

Construction:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Insulation:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Glazing:	As indicated
	As indicated

Ceiling penetrations

(see following pages for details)

Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Net floor area (m²) 72.5 Conditioned: **Unconditioned:** 4.1 Garage: TOTAL: 76.6

Annual thermal performance loads (MJ/m ²)		
Heating:	33.6	
Cooling:	16.8	
TOTAL:	50.4	

Plan documents

Plan ref/date: Project No. 21813 Prepared by: Wolski Coppin Architecture

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

If any of the windows selected are outside the 5% tolerance then this certificate is no longer valid and the

dwelling will need to be rerated to confirm compliance.

Scan to access this certificate online and confirm this is valid.



https://www.fr5.com.au/QRCodeLand ing?PublicId=6FQHMQKRJ3

Certificate Number: 6FQHMQKRJ3

Date of Certificate: 6 Jun 2019

★ Star rating: 6.1



Building Features

Windows type and performance value				
Window ID	Window type	U-value	SHGC	
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7	

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	21.12SD	2100	1200	ESE	Bedroom 1	No
ALM-002-01 A	Opening 9	1500	3000	ESE	Bedroom 2	No
ALM-002-01 A	21.36SD	2100	3600	ESE	Kitchen/Living	No
ALM-002-01 A	Opening 10	1500	1200	NNE	Kitchen/Living	No

Roof windows and skylight type and performance value						
ID	Window type				U-value	SHGC
Roof window and	skylight schedule					
ID	Roof window/ skylight no.	Area (m²)	Orientation	Zone name		Indoor shade/ diffuser

External wall type

Туре	Insulation	Wall wrap
1 : AFS - AFS 200mm (75mm Glasswool)	Rockwool batt (k = 0.033) (R2.3)	No

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : AFS - AFS 200mm (75mm Glasswool)	1.7	SSW	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	5.7	SSW	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	7.6	ESE	Bedroom 1	Yes	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	0.4	WNW	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	8.7	WNW	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	7.6	ESE	Bedroom 2	No	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	2.1	NNE	Bedroom 2	Yes	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	5.9	SSW	Bedroom 2	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	5.4	WNW	Ensuite	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.3	SSW	Ensuite	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3	SSW	Kitchen/Living	No	No

Certificate Number: 6FQHMQKRJ3

Date of Certificate: 6 Jun 2019

★ Star rating: 6.1



Building Features

1 : AFS - AFS 200mm (75mm Glasswool)	10	ESE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	18.9	NNE	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	1.2	WNW	Bathroom	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.8	NNE	Bathroom	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.6	WNW	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	10.9	SSW	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.4	WNW	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.8	SSW	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	2.4	NNE	Entry	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	5.6	WNW	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.1	NNE	Entry	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	49.5	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	FR5 - 125mm concrete slab	13.6	Enclosed	R0.0	Tiles
Bedroom 2	FR5 - 125mm concrete slab	11.2	Enclosed	R0.0	Tiles
Ensuite	FR5 - 125mm concrete slab	3.1	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 125mm concrete slab	34.5	Enclosed	R0.0	Tiles
Bathroom	FR5 - 125mm concrete slab	4.1	Enclosed	R0.0	Tiles
Entry	FR5 - 125mm concrete slab	10.1	Enclosed	R0.0	Tiles

Ceiling type				
Location	Material		Added insulation	Roof space above
Ceiling penetratio	ns			
Location	Number Type	Width (mm)	Length (mm)	Seal/ unsealed
Ceiling fans				
Location	Number Diameter (mm)			

Certificate Number: 6FQHMQKRJ3

Date of Certificate: 6 Jun 2019

★ Star rating: 6.1



Building Features

Roof type		
Material	Added insulation	Roof colour
Slab:Slab - Suspended Slab : 125mm: 125mm Suspended Slab	0.0	medium

Certificate Number: 6FQHMQKRJ3

Date of Certificate: 6 Jun 2019

★ Star rating: 6.1



Additional information

Explanatory notes

About this report

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General Information

A NatHERS House Energy Rating is a comprehensive, dynamic computer modelling evaluation of the floorplans, elevations and specifications to predict an energy load of a home. Not all of us use our homes in the same way, so ratings are generated using standard assumptions. This means homes can be compared across the country.

The actual energy consumption of your home may vary significantly from the predicted energy load figures in this report depending on issues such as the size of your household and your personal preferences, e.g. in terms of heating or cooling.

While the figures are an indicative guide to energy use, they can be used as a reliable guide for comparative purposes between different house designs and for demonstrating that the design meets the required regulatory compliance.

Homes that are energy efficient use less energy, are warmer in winter, cooler in summer and cost less to run. The higher the star rating the more energy efficient.

This NatHERS House Energy Rating report was carefully prepared by your assessor on the basis of comprehensive modelling using standard procedures to rate your home using an underlying engine developed by the Australian Commonwealth Scientific and Industrial Research Organisation (CSIRO).

All information relating to energy loads presented in this report is based on a range of standard assumptions in order to allow for comparisons with reports prepared for other homes and to demonstrate minimum regulatory compliance. The standard assumptions include figures for occupancy, indoor air temperature and are based on a unique climate file for your region.

Accredited Assessors

To ensure you get a high-quality, professional NatHERS House Energy Rating report, you should always use an accredited assessor, accredited assessors are members of a professional body called an Assessor Accrediting Organisation (AAO).

AAOs have specific quality assurance processes in place and continuing professional development requirements to maintain a high and consistent standard of assessments across the country. Non-accredited assessors do not have this level of quality assurance or any on-going training requirements.

If you have any questions or concerns about this report, please direct them to your assessor in the first instance.

If your assessor is unable to address your questions or concerns, please contact their AAO listed under 'assessor details'. You can also find a range of information about accredited assessors on the AAO websites.

Disclaimer

The energy values quoted are for comparison purposes only; they are not a prediction of actual energy use. This rating only applies to the floor plan, construction details, orientation and climate as submitted and included in the attached drawing set that bears a stamp with the same number as this certificate. Changes to any of these details could affect the rating.

Contact

For more information on the Nationwide House Energy Rating Scheme (NatHERS), visit www.nathers.gov.au For more information on energy efficient design and insulation visit www.yourhome.gov.au

Certificate Number: 9DR1S65W1Z

Date of Certificate: 6 Jun 2019

★ Star rating: 6.9



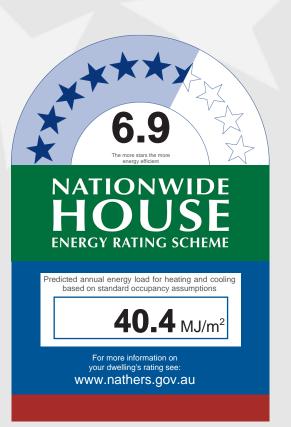
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	503, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Туре:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	open		



Key construction and insulation materials (see following pages for details)

Construction:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Insulation:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Glazing:	As indicated
	As indicated

Ceiling penetrations

(see following pages for details)

Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Net floor area (m²) **Annual thermal** performance loads 118.8 Conditioned: (MJ/m^2) **Unconditioned:** 7.4 Heating: 126.2 Cooling:

TOTAL:

Plan documents

Garage:

TOTAL:

Plan ref/date: Project No. 21813 Prepared by: Wolski Coppin Architecture

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on

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18.7

21.7

40.4

Certificate Number: 9DR1S65W1Z

Date of Certificate: 6 Jun 2019

★ Star rating: 6.9



Building Features

Windows type and performance value					
Window ID	Window type	U-value	SHGC		
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7		

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	bed 1 door	2100	920	NNE	Bedroom 1	No
ALM-002-01 A	bed 1	2100	1500	NNE	Bedroom 1	No
ALM-002-01 A	bed 2	2100	1300	ESE	Bedroom 2	No
ALM-002-01 A	bed 3	2100	1250	ESE	Bedroom 3	No
ALM-002-01 A	Opening 32	2100	2000	ESE	Kitchen/Living	No
ALM-002-01 A	lkitchen	2100	2473	NNE	Kitchen/Living	No
ALM-002-01 A	dining	2100	2750	ESE	Kitchen/Living	No
ALM-002-01 A	balcony	2100	4000	NNE	Kitchen/Living	No

ID	Window type				U-value	SHGC
Roof wind	ow and skylight schedule					
ID	Roof window/ skylight	no. Area (m ²	²) Orientatio	on Zone name		ndoor shade diffuser
External w	all type					
Туре		Insulation				Wall wrap
1 : AFS - AF	S 162mm (75mm Glasswool)	Rockwool I	oatt (k = 0.03	3) (R2.3)		No
	all schedule	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
Wall type	all schedule S 162mm (75mm Glasswool)	Area (m ²) 9.2	Orientation WNW	Zone name Bedroom 1	Fixed shade No	Eaves
Wall type 1 : AFS - AF						
Wall type 1 : AFS - AF 1 : AFS - AF	S 162mm (75mm Glasswool)	9.2	WNW	Bedroom 1	No	No
Wall type 1 : AFS - AF 1 : AFS - AF 1 : AFS - AF	S 162mm (75mm Glasswool) S 162mm (75mm Glasswool)	9.2 2.9	WNW NNE	Bedroom 1 Bedroom 1	No Yes	No Yes
Wall type 1 : AFS - AF 1 : AFS - AF 1 : AFS - AF 1 : AFS - AF	S 162mm (75mm Glasswool) S 162mm (75mm Glasswool) S 162mm (75mm Glasswool)	9.2 2.9 4.7	WNW NNE NNE	Bedroom 1 Bedroom 1 Bedroom 1	No Yes Yes	No Yes Yes
Wall type 1 : AFS - AF 1 : AFS - AF 1 : AFS - AF 1 : AFS - AF 1 : AFS - AF	S 162mm (75mm Glasswool) S 162mm (75mm Glasswool) S 162mm (75mm Glasswool) S 162mm (75mm Glasswool)	9.2 2.9 4.7 6	WNW NNE NNE WNW	Bedroom 1 Bedroom 1 Bedroom 1 Bedroom 2	No Yes Yes No No	No Yes Yes No

Certificate Number: 9DR1S65W1Z

Date of Certificate: 6 Jun 2019

★ Star rating: 6.9



Building Features

1 : AFS - AFS 162mm (75mm Glasswool)	6.1	ESE	Bedroom 3	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	1.5	NNE	Bedroom 3	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.9	ESE	Bedroom 3	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	8.3	WNW	ensuite 1	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	0.8	SSW	ensuite 1	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	5	WNW	bath	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	4.6	SSW	bath	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	0.7	NNE	bath	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	2.6	SSW	laundry	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.9	WNW	entry	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	11.8	ESE	Kitchen/Living	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	7.5	NNE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	7.5	ESE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	11	NNE	Kitchen/Living	Yes	Yes

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	100.9	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	FR5 - 150mm concrete slab	18.2	Enclosed	R0.0	Tiles
Bedroom 2	FR5 - 150mm concrete slab	18.2	Enclosed	R0.0	Tiles
Bedroom 3	FR5 - 150mm concrete slab	15.3	Enclosed	R0.0	Tiles
ensuite 1	FR5 - 150mm concrete slab	7.3	Enclosed	R0.0	Tiles
bath	FR5 - 150mm concrete slab	4	Enclosed	R0.0	Tiles
laundry	FR5 - 150mm concrete slab	3.4	Enclosed	R0.0	Tiles
entry	FR5 - 150mm concrete slab	10.9	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 150mm concrete slab	48.8	Enclosed	R0.0	Tiles

Ceiling type			
Location	Material	Added insulation	Roof space above
0.11			

Ceiling penetrations

Certificate Number: 9DR1S65W1Z

Date of Certificate: 6 Jun 2019

★ Star rating: 6.9



Building Features

Location	Number	Туре	Width (mm)	Length (mm) S	Seal/ unsealed
Ceiling fans					
Location	Number	Diameter (mm)			
Roof type					
Material				Added insulatio	n Roof colour
Slab:Slab - Suspended Slab : 150mm: 150mm Suspended Slab 0.0 medium			medium		

Certificate Number: 9DR1S65W1Z

Date of Certificate: 6 Jun 2019

★ Star rating: 6.9



Additional information

Explanatory notes

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Certificate Number: 65UQBBQG9S

Date of Certificate: 6 Jun 2019

★ Star rating: 7.4



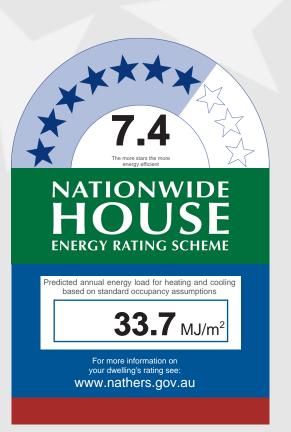
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	703, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Type:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	open		



Key construction and insulation materials (see following pages for details)

Net floor area (m²)

Conditioned:

Garage:

TOTAL:

Unconditioned:

Plan documents

Plan ref/date:

Prepared by:

Construction:	Wall: As indicated Roof: As indicated
	Floor: As indicated
Insulation:	Wall: As indicated Roof: As indicated
Glazing:	Floor: As indicated As indicated As indicated

100.6

107.5

6.9

Ceiling penetrations

(see following pages for details)

-	
Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

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https://www.fr5.com.au/QRCodeLand ing?PublicId=65UQBBQG9S

Annual thermal

 (MJ/m^2)

Heating:

Cooling:

TOTAL:

Wolski Coppin Architecture

Project No. 21813

performance loads

21.5

12.2

33.7

Certificate Number: 65UQBBQG9S

Date of Certificate: 6 Jun 2019

★ Star rating: 7.4



Building Features

Windows type an	d performance value		
Window ID	Window type	U-value	SHGC
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	bed 1 door	2100	920	NNE	Bedroom 1	No
ALM-002-01 A	bed 1	2100	1500	NNE	Bedroom 1	No
ALM-002-01 A	bed 2	2100	1300	ESE	Bedroom 2	No
ALM-002-01 A	Opening 40	2100	1800	SSW	Bedroom 3	No
ALM-002-01 A	bed 3	2100	750	ESE	Bedroom 3	No
ALM-002-01 A	Opening 32	2100	300	ESE	Kitchen/Living	No
ALM-002-01 A	lkitchen	2100	2473	NNE	Kitchen/Living	No
ALM-002-01 A	dining	2100	2750	ESE	Kitchen/Living	No
ALM-002-01 A	balcony	2100	4000	NNE	Kitchen/Living	No

ID	Window type				U-value	SHGC
Roof wind	low and skylight schedule					
ID	Roof window/ skylight	no. Area (m ²	²) Orientatio	on Zone name		ndoor shade diffuser
External w	vall type					
Туре		Insulation				Wall wrap
1 : AFS - AFS 162mm (75mm Glasswool) F			Rockwool batt (k = 0.033) (R2.3)			
1 : AFS - AF	FS 162mm (75mm Glasswool)	Rockwool I	batt (k = 0.03	3) (R2.3)		No
	S 162mm (75mm Glasswool)	Rockwool	batt (k = 0.03	3) (R2.3)		No
External w	, , , , , , , , , , , , , , , ,	Area (m ²)	batt (k = 0.03) Orientation		Fixed shade	No Eaves
External w Wall type	, , , , , , , , , , , , , , , ,				Fixed shade No	
External w Wall type 1 : AFS - AF	vall schedule	Area (m ²)	Orientation	Zone name		Eaves
External w Wall type 1 : AFS - AF 1 : AFS - AF	vall schedule FS 162mm (75mm Glasswool)	Area (m²) 8.5	Orientation WNW	Zone name Bedroom 1	No	Eaves No
External w Wall type 1 : AFS - AF 1 : AFS - AF 1 : AFS - AF	vall schedule FS 162mm (75mm Glasswool) FS 162mm (75mm Glasswool)	Area (m ²) 8.5 3.1	Orientation WNW NNE	Zone name Bedroom 1 Bedroom 1	No Yes	Eaves No Yes
External w Wall type 1 : AFS - AF 1 : AFS - AF 1 : AFS - AF 1 : AFS - AF	vall schedule FS 162mm (75mm Glasswool) FS 162mm (75mm Glasswool) FS 162mm (75mm Glasswool)	Area (m ²) 8.5 3.1 4.7	Orientation WNW NNE NNE	Zone name Bedroom 1 Bedroom 1 Bedroom 1	No Yes Yes	Eaves No Yes Yes

Certificate Number: 65UQBBQG9S

Date of Certificate: 6 Jun 2019

★ Star rating: 7.4



Building Features

1 : AFS - AFS 162mm (75mm Glasswool)	8.9	ESE	Bedroom 3	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	6.9	WNW	ensuite 1	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	0.7	SSW	ensuite 1	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	3	WNW	bath	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	0.8	NNE	bath	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.7	WNW	laundry	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	7.1	SSW	laundry	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.8	WNW	entry	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	6.3	ESE	Kitchen/Living	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	7.5	NNE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	7.5	ESE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	10.8	NNE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	4.5	WNW	Ensuite 2	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	4.3	SSW	Ensuite 2	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	4.9	ESE	Ensuite 2	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	93.7	

Floors					
Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	FR5 - 150mm concrete slab	16.5	Enclosed	R0.0	Tiles
Bedroom 2	FR5 - 150mm concrete slab	16.5	Enclosed	R0.0	Tiles
Bedroom 3	FR5 - 150mm concrete slab	11.1	Enclosed	R0.0	Tiles
ensuite 1	FR5 - 150mm concrete slab	5.9	Enclosed	R0.0	Tiles
bath	FR5 - 150mm concrete slab	2.3	Enclosed	R0.0	Tiles
laundry	FR5 - 150mm concrete slab	4.6	Enclosed	R0.0	Tiles
entry	FR5 - 150mm concrete slab	6.1	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 150mm concrete slab	40.8	Enclosed	R0.0	Tiles
Ensuite 2	FR5 - 125mm concrete slab	3.7	Enclosed	R0.0	Tiles

Ceiling type

Location

Material

Added insulation

Roof space above

Certificate Number: 65UQBBQG9S

Date of Certificate: 6 Jun 2019

★ Star rating: 7.4



Building Features

Ensuite 2	Plasterboard	R	3.0	No
Ceiling penetratio	ns			
Location	Number Type	Vidth (mm)	Length (mm)	Seal/ unsealed
Ceiling fans				
Location	Number Diameter (mm)			

Roof type		
Material	Added insulation	Roof colour
Slab:Slab - Suspended Slab : 150mm: 150mm Suspended Slab	0.0	medium
Slab:Slab - Suspended Slab : 125mm: 125mm Suspended Slab	0.0	medium

Certificate Number: 65UQBBQG9S

Date of Certificate: 6 Jun 2019

★ Star rating: 7.4



Additional information

Explanatory notes

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Certificate Number: 66BVWOLYT8

Date of Certificate: 6 Jun 2019

★ Star rating: 5.7



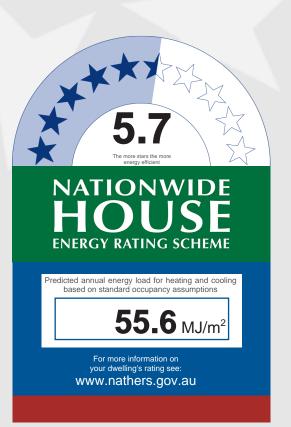
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	102, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Туре:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		



Key construction and insulation materials

(see following pages for details)

Construction:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Insulation:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Glazing:	As inc	licated
	As inc	licated

Ceiling penetrations

(see following pages for details)

-	
Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Net floor area (m²)Annu
perfoConditioned:79.5Unconditioned:3.9Garage:-TOTAL:83.4

Annual thermal performance loads (MJ/m²) Heating: 44.2 Cooling: 11.4 TOTAL: 55.6

Plan documents

Plan ref/date:Project No. 21813Prepared by:Wolski Coppin Architecture

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

If any of the windows selected are outside the 5% tolerance then this certificate is no longer valid and the

dwelling will need to be rerated to confirm compliance.

Scan to access this certificate online and confirm this is valid.



https://www.fr5.com.au/QRCodeLand ing?PublicId=66BVWOLYT8

Certificate Number: 66BVWOLYT8

Date of Certificate: 6 Jun 2019

★ Star rating: 5.7



Building Features

Windows type and performance value						
Window ID	Window type	U-value	SHGC			
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7			

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	Opening 41	2100	1800	NNE	Bedroom 1	No
ALM-002-01 A	dining	2100	2572	WNW	Kitchen/Living	No
ALM-002-01 A	balcony	2100	2100	NNE	Kitchen/Living	No
ALM-002-01 A	living	2100	1800	WNW	Kitchen/Living	No

Roof windows and skylight type and performance value						
ID	Window type				U-value	SHGC
Roof window and	skylight schedule					
ID	Roof window/ skylight no.	Area (m ²)	Orientation	Zone name		Indoor shade/ diffuser

External wall type

Туре	Insulation	Wall wrap
1 : AFS - AFS 200mm (75mm Glasswool)	Rockwool batt (k = 0.033) (R2.3)	No

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : AFS - AFS 200mm (75mm Glasswool)	8.7	ESE	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	5.4	NNE	Bedroom 1	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	8.1	ESE	Bedroom 2	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	8.7	NNE	Bedroom 2	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.6	SSW	ensuite	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.2	ESE	ensuite	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	6.5	WNW	bath	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.4	SSW	bath	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	2.5	SSW	entry hall	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	1.2	WNW	entry hall	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	6.9	SSW	entry hall	No	No

Certificate Number: 66BVWOLYT8

Date of Certificate: 6 Jun 2019

★ Star rating: 5.7



Building Features

1 : AFS - AFS 200mm (75mm Glasswool)	3.5	ESE	entry hall	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	8.3	NNE	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	7.4	WNW	Kitchen/Living	Yes	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	7.3	NNE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	2.1	WNW	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.6	NNE	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	4.9	WNW	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.5	SSW	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	2.1	WNW	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	6.8	SSW	Kitchen/Living	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	9.7	SSW	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	9.7	SSW	Kitchen/Living	No	

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	60.7	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	FR5 - 150mm concrete slab	10.2	Enclosed	R0.0	Carpet
Bedroom 2	FR5 - 150mm concrete slab	12.2	Enclosed	R0.0	Carpet
ensuite	FR5 - 150mm concrete slab	4.5	Enclosed	R0.0	Tiles
bath	FR5 - 150mm concrete slab	3.9	Enclosed	R0.0	Tiles
entry hall	FR5 - 150mm concrete slab	12.8	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 150mm concrete slab	39.8	Enclosed	R0.0	Tiles

Ceiling type			
Location	Material	Added insulation	Roof space above
Ceiling penetratio	ns		
Location	Number Type Width	n (mm) Length (mm)	Seal/ unsealed
Ceiling fans			
Location	Number Diameter (mm)		

Certificate Number: 66BVWOLYT8

Date of Certificate: 6 Jun 2019

★ Star rating: 5.7



Building Features

Roof type		
Material	Added insulation	Roof colour
Slab:Slab - Suspended Slab : 150mm: 150mm Suspended Slab	0.0	medium

Certificate Number: 66BVWOLYT8

Date of Certificate: 6 Jun 2019

★ Star rating: 5.7



Additional information

Explanatory notes

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Certificate Number: 78DYSAAUDC

Date of Certificate: 6 Jun 2019

★ Star rating: 5.4



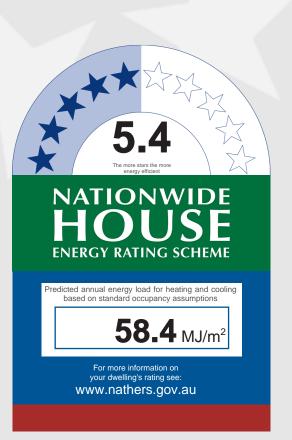
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	206, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Туре:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		



Key construction and insulation materials

(see following pages for details)

Net floor area (m²)

Conditioned:

Garage:

TOTAL:

Unconditioned:

Plan documents

Plan ref/date:

Prepared by:

Construction:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Insulation:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Glazing:	As indicated
	As indicated

48.1

3.1

51.2

Ceiling penetrations

(see following pages for details)

-	
Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

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dwelling will need to be rerated to confirm compliance.

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https://www.fr5.com.au/QRCodeLand ing?PublicId=78DYSAAUDC

Annual thermal

 (MJ/m^2)

Heating:

Cooling:

TOTAL:

Wolski Coppin Architecture

Project No. 21813

performance loads

38.1

20.3

58.4

Certificate Number: 78DYSAAUDC

Date of Certificate: 6 Jun 2019

★ Star rating: 5.4



Building Features

Windows type an	d performance value		
Window ID	Window type	U-value	SHGC
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	21.085SW	2100	850	SSW	Bedroom	No
ALM-002-01 A	21.045FW	2100	448	ESE	Bedroom	No
ALM-002-01 A	21.045FW	2100	421	ESE	Bedroom	No
ALM-002-01 A	21.045FW	2100	450	ESE	Bedroom	No
ALM-002-01 A	Opening 9	2100	2810	ESE	Kitchen/Living	No

	ws and skylight type and performance value	
ID	Window type	U-value SHGC
	w and skylight schedule	
ID	Roof window/ skylight no. Area (m ²) Orientation Zone name	Outdoor Indoor shade/ shade diffuser

Туре	Insulation	Insulation				
1 : AFS - AFS 200mm (75mm Glasswool)	Rockwool I	oatt (k = 0.033	3) (R2.3)		No	
External wall schedule						
Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves	
1 : AFS - AFS 200mm (75mm Glasswool)	2.4	SSW	Bedroom	Yes	No	
1 : AFS - AFS 200mm (75mm Glasswool)	7.7	ESE	Bedroom	No	Yes	
1 : AFS - AFS 200mm (75mm Glasswool)	8.8	NNE	Bedroom	No	No	
1 : AFS - AFS 200mm (75mm Glasswool)	3.8	WNW	Bedroom	No	No	
1 : AFS - AFS 200mm (75mm Glasswool)	1.3	NNE	Kitchen/Living	Yes	No	
1 : AFS - AFS 200mm (75mm Glasswool)	20	SSW	Kitchen/Living	Yes	No	
1 : AFS - AFS 200mm (75mm Glasswool)	7.3	ESE	Kitchen/Living	Yes	Yes	
1 : AFS - AFS 200mm (75mm Glasswool)	6.5	NNE	Kitchen/Living	No	No	
1 : AFS - AFS 200mm (75mm Glasswool)	3.3	WNW	Bathroom	No	No	
1 : AFS - AFS 200mm (75mm Glasswool)	5.5	NNE	Bathroom	No	No	

Certificate Number: 78DYSAAUDC

Date of Certificate: 6 Jun 2019

★ Star rating: 5.4



Building Features

1 : AFS - AFS 200mm (75mm Glasswool)	1.3	ESE	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.8	NNE	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	5	WNW	Entry	No	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	0.6	SSW	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	4.1	WNW	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.1	SSW	Entry	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	26.1	

Floors					
Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom	FR5 - 125mm concrete slab	11.1	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 125mm concrete slab	31.5	Enclosed	R0.0	Tiles
Bathroom	FR5 - 125mm concrete slab	3.1	Enclosed	R0.0	Tiles
Entry	FR5 - 125mm concrete slab	5.5	Enclosed	R0.0	Tiles

Ceiling type				
Location	Material		Added insulation	Roof space above
Ceiling penetrati	ons			
Location	Number Type	Width (mm)	Length (mm)	Seal/ unsealed
Ceiling fans				
Location	Number Diameter (mm)			

Roof type		
Material	Added insulation	Roof colour
Slab:Slab - Suspended Slab : 125mm: 125mm Suspended Slab	0.0	medium

Certificate Number: 78DYSAAUDC

Date of Certificate: 6 Jun 2019

★ Star rating: 5.4



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Certificate Number: 80KFNFQZAZ

Date of Certificate: 6 Jun 2019

★ Star rating: 5.9



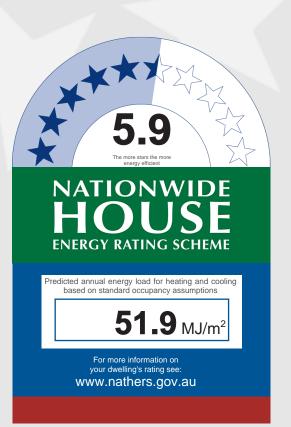
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	301, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Type:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		



Key construction and insulation materials

(see following pages for details)

Net floor area (m²)

Conditioned:

Garage:

TOTAL:

Unconditioned:

Plan documents

Plan ref/date:

Prepared by:

Construction:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Insulation:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Glazing:	As indicated
	As indicated

44.4

1.4

45.8

Ceiling penetrations

(see following pages for details)

Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Window selection - default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

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https://www.fr5.com.au/QRCodeLand ing?PublicId=80KFNFQZAZ

Annual thermal

 (MJ/m^2)

Heating:

Cooling:

TOTAL:

Wolski Coppin Architecture

Project No. 21813

performance loads

22.6

29.3

Certificate Number: 80KFNFQZAZ

Date of Certificate: 6 Jun 2019

★ Star rating: 5.9



Building Features

Windows type and performance value				
Window ID	Window type	U-value	SHGC	
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7	

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	bed 1	2100	1800	WNW	Bedroom 1	No
ALM-002-01 A	bed 2	2100	1200	NNE	Bedroom 2	No
ALM-002-01 A	balcony	2100	4280	NNE	Kitchen/Living	No
ALM-002-01 A	dining	2100	2100	WNW	Kitchen/Living	No

Roof windows and	d skylight type and perf	ormance v	alue			
ID	Window type				U-value	SHGC
Roof window and	skylight schedule					
ID	Roof window/ skylight no.	Area (m ²)	Orientation	Zone name		Indoor shade/ diffuser

External wall type

Туре	Insulation	Wall wrap
1 : AFS - AFS 162mm (75mm Glasswool)	Rockwool batt (k = 0.033) (R2.3)	No

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : AFS - AFS 162mm (75mm Glasswool)	6	WNW	Bedroom 1	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	1.3	SSW	Bedroom 1	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	5.3	SSW	Bedroom 1	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	7.5	ESE	Bedroom 2	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	6	NNE	Bedroom 2	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	1.1	ESE	study	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	0.5	SSW	study	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	3	ESE	study	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	3.5	SSW	laundry	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	2.8	ESE	laundry	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	0.5	NNE	laundry	Yes	No

Certificate Number: 80KFNFQZAZ

Date of Certificate: 6 Jun 2019

★ Star rating: 5.9



Building Features

1 : AFS - AFS 162mm (75mm Glasswool)	4.6	SSW	bath	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	5.5	SSW	ensuite	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	1.8	ESE	entry hall	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	14.2	NNE	Kitchen/Living	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	10.8	WNW	Kitchen/Living	No	Yes

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	68.1	

Floors					
Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	FR5 - 150mm concrete slab	7.5	Enclosed	R0.0	Tiles
Bedroom 2	FR5 - 150mm concrete slab	6.1	Enclosed	R0.0	Tiles
study	FR5 - 150mm concrete slab	3.8	Enclosed	R0.0	Tiles
laundry	FR5 - 150mm concrete slab	1.4	Enclosed	R0.0	Tiles
bath	FR5 - 150mm concrete slab	1.8	Enclosed	R0.0	Tiles
ensuite	FR5 - 150mm concrete slab	2.8	Enclosed	R0.0	Tiles
entry hall	FR5 - 150mm concrete slab	3.1	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 150mm concrete slab	19.4	Enclosed	R0.0	Tiles

Ceiling type				
Location	Material		Added insulation	Roof space above
Ceiling penetrati	ons			
Location	Number Type	Width (mm)	Length (mm)	Seal/ unsealed
Ceiling fans				
Location	Number Diameter (mm)			
Roof type				
Material			Added insu	Ilation Roof colour
Slab:Slab - Suspend	led Slab : 150mm: 150mm Suspended Slab	0.0	medium	

Certificate Number: 80KFNFQZAZ

Date of Certificate: 6 Jun 2019

★ Star rating: 5.9



Additional information

Explanatory notes

About this report

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Contact

Certificate Number: 142J98JK3F

Date of Certificate: 6 Jun 2019

★ Star rating: 6.4



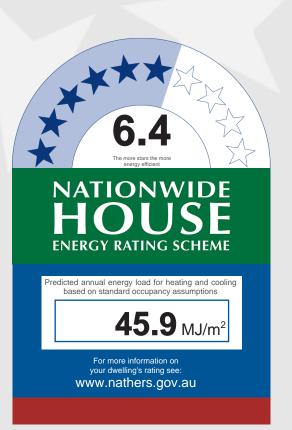
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	304, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Туре:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		



Key construction and insulation materials

(see following pages for details)

Construction:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Insulation:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Glazing:	As indicated
	As indicated

Ceiling penetrations

(see following pages for details)

Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Net floor area (m ²)	Annual ther	
Conditioned: Unconditioned:	74.2 5.9	performance loads (MJ/m ²)	
Garage: TOTAL:	- 80.1	Heating: Cooling: TOTAL:	25 20 45

Plan documents

Project No. 21813 Plan ref/date: Prepared by: Wolski Coppin Architecture

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

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25.7

20.2

Certificate Number: 142J98JK3F

Date of Certificate: 6 Jun 2019

★ Star rating: 6.4



Building Features

Windows type and performance value					
Window ID	Window type	U-value	SHGC		
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7		

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	bed 1	2100	600	ESE	Bedroom 1	No
ALM-002-01 A	bed 1	2100	600	ESE	Bedroom 1	No
ALM-002-01 A	bed 2	2100	1600	SSW	Bedroom 2	No
ALM-002-01 A	kitchen	2100	300	WNW	Kitchen/Living	No
ALM-002-01 A	dining	2100	1800	WNW	Kitchen/Living	No
ALM-002-01 A	balcony	2100	2400	SSW	Kitchen/Living	No
ALM-002-01 A	living	2100	2800	WNW	Kitchen/Living	No

Roof windows and skylight type and performance value					
ID	Window type	U-value SHGC			
Roof window and	skylight schedule				
ID	Roof window/ skylight no. Area (m ²) Orientation Zone name	Outdoor Indoor shade/ shade diffuser			

External wall type					
Туре	Insulation				Wall wrap
1 : AFS - AFS 200mm (75mm Glasswool)	Rockwool	Rockwool batt (k = 0.033) (R2.3)			No
External wall schedule					
Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : AFS - AFS 200mm (75mm Glasswool)	8.6	SSW	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	7.3	ESE	Bedroom 1	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.5	NNE	Bedroom 2	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	6.1	SSW	Bedroom 2	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	8.5	ESE	Bedroom 2	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.4	SSW	laundry	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.3	ESE	laundry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	4.6	NNE	laundry	No	No

Certificate Number: 142J98JK3F

Date of Certificate: 6 Jun 2019

★ Star rating: 6.4



Building Features

3.4	WNW	bath	No	No
5.7	NNE	bath	No	No
3.5	WNW	entry	No	No
3.8	ESE	entry	No	No
8.5	WNW	Kitchen/Living	No	No
6.5	SSW	Kitchen/Living	Yes	Yes
8	WNW	Kitchen/Living	Yes	Yes
9.1	SSW	Kitchen/Living	No	No
19.8	NNE	Kitchen/Living	No	No
	5.7 3.5 3.8 8.5 6.5 8 9.1	5.7 NNE 3.5 WNW 3.8 ESE 8.5 WNW 6.5 SSW 8 WNW 9.1 SSW	5.7NNEbath3.5WNWentry3.8ESEentry8.5WNWKitchen/Living6.5SSWKitchen/Living8WNWKitchen/Living9.1SSWKitchen/Living	5.7NNEbathNo3.5WNWentryNo3.8ESEentryNo8.5WNWKitchen/LivingNo6.5SSWKitchen/LivingYes8WNWKitchen/LivingYes9.1SSWKitchen/LivingNo

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	64	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	FR5 - 150mm concrete slab	12.7	Enclosed	R0.0	Carpet
Bedroom 2	FR5 - 150mm concrete slab	12	Enclosed	R0.0	Carpet
laundry	FR5 - 150mm concrete slab	2.6	Enclosed	R0.0	Tiles
bath	FR5 - 150mm concrete slab	3.3	Enclosed	R0.0	Tiles
ensuite	FR5 - 150mm concrete slab	3.7	Enclosed	R0.0	Tiles
entry	FR5 - 150mm concrete slab	7.4	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 150mm concrete slab	38.5	Enclosed	R0.0	Tiles

Ceiling type Location Material Added insulation Roof space above Ceiling penetrations Location Number Type Width (mm) Length (mm) Seal/ unsealed Ceiling fans Location Number Diameter (mm) Location Location

Roof type

Certificate Number: 142J98JK3F

Date of Certificate: 6 Jun 2019

★ Star rating: 6.4



Building Features

Material	Added insulation	Roof colour
Slab:Slab - Suspended Slab : 150mm: 150mm Suspended Slab	0.0	medium

Certificate Number: 142J98JK3F

Date of Certificate: 6 Jun 2019

★ Star rating: 6.4



Additional information

Explanatory notes

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Contact

Certificate Number: 190ZKLZVE9

Date of Certificate: 6 Jun 2019

★ Star rating: 5.9



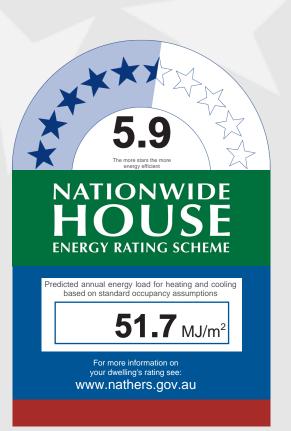
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	306, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Туре:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		



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Key construction	and insulation materials	£
noy conou action		·

(see following pages for details)

Construction:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Insulation:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Glazing:	As indicated
	As indicated

Ceiling penetrations

(see following pages for details)

Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Net floor area (m²)	Annual thermal	
Conditioned: Unconditioned:	72.5 4.1	performance (MJ/m ²)	elloads
Garage:		Heating:	35
TOTAL:	76.6	Cooling:	16
		TOTAL:	51

Plan documents

Р

Ρ

lan ref/date:	Project No. 21813
repared by:	Wolski Coppin Architecture

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

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35.4

16.3

Certificate Number: 190ZKLZVE9

Date of Certificate: 6 Jun 2019

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Building Features

Windows type and performance value					
Window ID	Window type	U-value	SHGC		
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7		

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	21.12SD	2100	1200	ESE	Bedroom 1	No
ALM-002-01 A	Opening 9	1500	3000	ESE	Bedroom 2	No
ALM-002-01 A	21.36SD	2100	3600	ESE	Kitchen/Living	No
ALM-002-01 A	Opening 10	1500	1200	NNE	Kitchen/Living	No

Roof windows and	d skylight type and perf	ormance v	alue					
ID	Window type				U-value	SHGC		
Roof window and skylight schedule								
ID	Roof window/ skylight no.	Area (m²)	Orientation	Zone name		Indoor shade/ diffuser		

External wall type

Туре	Insulation	Wall wrap
1 : AFS - AFS 200mm (75mm Glasswool)	Rockwool batt (k = 0.033) (R2.3)	No

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : AFS - AFS 200mm (75mm Glasswool)	1.7	SSW	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	5.7	SSW	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	7.6	ESE	Bedroom 1	Yes	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	0.4	WNW	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	8.7	WNW	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	7.6	ESE	Bedroom 2	No	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	2.1	NNE	Bedroom 2	Yes	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	5.9	SSW	Bedroom 2	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	5.4	WNW	Ensuite	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.3	SSW	Ensuite	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3	SSW	Kitchen/Living	No	No

Certificate Number: 190ZKLZVE9

Date of Certificate: 6 Jun 2019

★ Star rating: 5.9



Building Features

1 : AFS - AFS 200mm (75mm Glasswool)	10	ESE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	18.9	NNE	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	1.2	WNW	Bathroom	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.8	NNE	Bathroom	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.6	WNW	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	10.9	SSW	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.4	WNW	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.8	SSW	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	2.4	NNE	Entry	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	5.6	WNW	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.1	NNE	Entry	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	49.5	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	FR5 - 125mm concrete slab	13.6	Enclosed	R0.0	Tiles
Bedroom 2	FR5 - 125mm concrete slab	11.2	Enclosed	R0.0	Tiles
Ensuite	FR5 - 125mm concrete slab	3.1	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 125mm concrete slab	34.5	Enclosed	R0.0	Tiles
Bathroom	FR5 - 125mm concrete slab	4.1	Enclosed	R0.0	Tiles
Entry	FR5 - 125mm concrete slab	10.1	Enclosed	R0.0	Tiles

Ceiling type			
Location	Material	Added insulation	Roof space above
Ceiling penetration	ns		
Location	Number Type Width (mm) Length (mm)	Seal/ unsealed
Ceiling fans			
Location	Number Diameter (mm)		

Certificate Number: 190ZKLZVE9

Date of Certificate: 6 Jun 2019

★ Star rating: 5.9



Building Features

Roof type		
Material	Added insulation	Roof colour
Slab:Slab - Suspended Slab : 125mm: 125mm Suspended Slab	0.0	medium

Certificate Number: 190ZKLZVE9

Date of Certificate: 6 Jun 2019

★ Star rating: 5.9



Additional information

Explanatory notes

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Contact

Certificate Number: CVT6H53GIO

Date of Certificate: 6 Jun 2019

★ Star rating: 6.2



Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	208, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Туре:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		

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Kow	constructio	a and ind	aulatian.	motoriolo
D EV			SHRITION	materials

(see following pages for details)

Net floor area (m²)

Conditioned:

Garage:

TOTAL:

Unconditioned:

Plan documents

Plan ref/date:

Prepared by:

Construction:	Wall: As indicated Roof: As indicated
Insulation:	Floor: As indicated Wall: As indicated Roof: As indicated
Glazing:	Floor: As indicated As indicated As indicated

72.6

76.1

3.5

Ceiling penetrations

(see following pages for details)

Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Window selection - default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on

page 2. If any of the windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be sered to

dwelling will need to be rerated to confirm compliance.

Scan to access this certificate online and confirm this is valid.



https://www.fr5.com.au/QRCodeLand ing?PublicId=CVT6H53GIO

Annual thermal

 (MJ/m^2)

Heating:

Cooling:

TOTAL:

Wolski Coppin Architecture

Project No. 21813

performance loads

22.5

26.2

Certificate Number: CVT6H53GIO

Date of Certificate: 6 Jun 2019





Building Features

Windows type and performance value					
Window ID	Window type	U-value	SHGC		
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7		

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	21.135SW	2100	1350	SSW	Bedroom 1	No
ALM-002-01 A	21.045FW	2100	450	WNW	Bedroom 1	No
ALM-002-01 A	21.095SW	2100	950	SSW	Bedroom 2	No
ALM-002-01 A	21.045FW	2100	450	WNW	Bedroom 2	No
ALM-002-01 A	Opening 13	1500	2100	SSW	Kitchen/Living	No
ALM-002-01 A	Opening 14	1500	1300	SSW	Kitchen/Living	No
ALM-002-01 A	21.45SD	2100	4500	ESE	Kitchen/Living	No

Roof windows and skylight type and performance value					
ID	Window type	U-value SHGC			
Roof window	and skylight schedule				
ID	Roof window/ skylight no. Area (m ²) Orientation Zone name	Outdoor Indoor shade/ shade diffuser			

External wall type					
Туре	Insulation	Insulation			Wall wrap
1 : AFS - AFS 200mm (75mm Glasswool)	Rockwool	batt (k = 0.03	3) (R2.3)		No
External wall schedule					
Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : AFS - AFS 200mm (75mm Glasswool)	4	WNW	Entry	No	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	10.7	NNE	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.4	WNW	Ensuite	No	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	0.7	NNE	Ensuite	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.5	SSW	Bedroom 1	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	11	WNW	Bedroom 1	No	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	7	SSW	Bedroom 2	No	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	6.9	WNW	Bedroom 2	Yes	No

Certificate Number: CVT6H53GIO

Date of Certificate: 6 Jun 2019

★ Star rating: 6.2



Building Features

1 : AFS - AFS 200mm (75mm Glasswool)	3.7	NNE	Bathroom	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	5.5	ESE	Bathroom	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.3	NNE	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	9.5	SSW	Kitchen/Living	No	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	10.9	ESE	Kitchen/Living	No	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	2.1	NNE	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	9	ESE	Kitchen/Living	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	57.9	

Floors Area (m²) Sub floor ventilation Added insulation Covering Location Construction Entry FR5 - 125mm concrete slab 7.5 Enclosed R0.0 Tiles Ensuite FR5 - 125mm concrete slab 3.5 Enclosed R0.0 Tiles Bedroom 1 FR5 - 125mm concrete slab 14.3 Enclosed R0.0 Tiles Bedroom 2 FR5 - 125mm concrete slab 10.6 Enclosed R0.0 Tiles **Bathroom** FR5 - 125mm concrete slab 3.5 Enclosed R0.0 Tiles Kitchen/Living FR5 - 125mm concrete slab 36.7 Enclosed R0.0 Tiles

Ceiling type					
Location	Material			Added insulation	Roof space above
Ceiling pene	trations				
Location	Number	Туре	Width (mm)	Length (mm)	Seal/ unsealed
Ceiling fans					
Location	Number	Diameter (mm)			
Roof type					
Material				Added insu	lation Roof colour
Slab:Slab - Sus	spended Slab : 12	25mm: 125mm Suspended Slab		0.0	medium

Certificate Number: CVT6H53GIO

Date of Certificate: 6 Jun 2019

★ Star rating: 6.2



Additional information

Explanatory notes

About this report

Residential energy ratings address the quality of the building fabric i.e. walls, windows, floors and roof/ceilings. Ratings do not cover the energy or water efficiency of appliances including heating and cooling, hot water, dishwashers, ovens, fridges, TVs etc. or solar panel or water tank requirements. The efficiency or specification of these items is generally covered by other regulations, standards or guidelines.

General Information

A NatHERS House Energy Rating is a comprehensive, dynamic computer modelling evaluation of the floorplans, elevations and specifications to predict an energy load of a home. Not all of us use our homes in the same way, so ratings are generated using standard assumptions. This means homes can be compared across the country.

The actual energy consumption of your home may vary significantly from the predicted energy load figures in this report depending on issues such as the size of your household and your personal preferences, e.g. in terms of heating or cooling.

While the figures are an indicative guide to energy use, they can be used as a reliable guide for comparative purposes between different house designs and for demonstrating that the design meets the required regulatory compliance.

Homes that are energy efficient use less energy, are warmer in winter, cooler in summer and cost less to run. The higher the star rating the more energy efficient.

This NatHERS House Energy Rating report was carefully prepared by your assessor on the basis of comprehensive modelling using standard procedures to rate your home using an underlying engine developed by the Australian Commonwealth Scientific and Industrial Research Organisation (CSIRO).

All information relating to energy loads presented in this report is based on a range of standard assumptions in order to allow for comparisons with reports prepared for other homes and to demonstrate minimum regulatory compliance. The standard assumptions include figures for occupancy, indoor air temperature and are based on a unique climate file for your region.

Accredited Assessors

To ensure you get a high-quality, professional NatHERS House Energy Rating report, you should always use an accredited assessor, accredited assessors are members of a professional body called an Assessor Accrediting Organisation (AAO).

AAOs have specific quality assurance processes in place and continuing professional development requirements to maintain a high and consistent standard of assessments across the country. Non-accredited assessors do not have this level of quality assurance or any on-going training requirements.

If you have any questions or concerns about this report, please direct them to your assessor in the first instance.

If your assessor is unable to address your questions or concerns, please contact their AAO listed under 'assessor details'. You can also find a range of information about accredited assessors on the AAO websites.

Disclaimer

The energy values quoted are for comparison purposes only; they are not a prediction of actual energy use. This rating only applies to the floor plan, construction details, orientation and climate as submitted and included in the attached drawing set that bears a stamp with the same number as this certificate. Changes to any of these details could affect the rating.

Contact

Certificate Number: DNG78LA1QZ

Date of Certificate: 6 Jun 2019

★ Star rating: 7.2



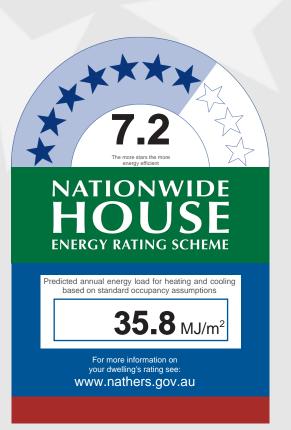
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	601, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Type:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	open		



Key construction	and	insulation	materials
(see following pages for	r detai	ls)	

(see following pages for details)

Net floor area (m²)

Conditioned:

Garage:

TOTAL:

Unconditioned:

Plan documents

Plan ref/date:

Prepared by:

Construction:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Insulation:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Glazing:	As indicated
	As indicated

126.7

129.3

2.6

Ceiling penetrations

(see following pages for details)

-	
Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on

page 2. If any of the windows selected are outside the 5% tolerance then this certificate is no longer valid and the

dwelling will need to be rerated to confirm compliance.

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https://www.fr5.com.au/QRCodeLand ing?PublicId=DNG78LA1QZ

* Nationwide House Energy Rating Scheme (NatHERS) is an initiative of the Australian, state and territory governments. For more details see www.nathers.gov.au

Annual thermal

 (MJ/m^2)

Heating:

Cooling:

TOTAL:

Wolski Coppin Architecture

Project No. 21813

performance loads

15.5

20.3

Certificate Number: DNG78LA1QZ

Date of Certificate: 6 Jun 2019

★ Star rating: 7.2



Building Features

Windows type and performance value						
Window ID	Window type	U-value	SHGC			
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7			

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	Opening 60	2100	2700	NNE	Bedroom 1	No
ALM-002-01 A	Opening 65	2100	1100	WNW	Bedroom 2	No
ALM-002-01 A	Opening 63	2100	1500	WNW	Bedroom 2	No
ALM-002-01 A	Opening 62	2100	702	WNW	Bedroom 3	No
ALM-002-01 A	Opening 61	2100	503	SSW	Bedroom 3	No
ALM-002-01 A	Opening 57	2100	2400	NNE	Kitchen/Living	No
ALM-002-01 A	Opening 64	2100	3000	WNW	Kitchen/Living	No
ALM-002-01 A	Opening 59	2100	3700	NNE	Kitchen/Living	No
ALM-002-01 A	Opening 58	2100	2720	WNW	Kitchen/Living	No

ID	Window type	U-value SH	GC				
Roof window and skylight schedule							

External wall typeInsulationWall wrap1 : AFS - AFS 162mm (75mm Glasswool)Rockwool batt (k = 0.033) (R2.3)No2 : FR5 - Internal Plasterboard Stud WallNo

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : AFS - AFS 162mm (75mm Glasswool)	10.8	ESE	Bedroom 1	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	9.3	NNE	Bedroom 1	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	0.8	SSW	Night 6	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	9.9	ESE	Night 6	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	3.9	SSW	Entry Study	No	No

Certificate Number: DNG78LA1QZ

Date of Certificate: 6 Jun 2019

★ Star rating: 7.2



Building Features

1 : AFS - AFS 162mm (75mm Glasswool)	4.1	ESE	Entry Study	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	5.2	SSW	Laundry	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.7	ESE	Laundry	No	Yes
2 : FR5 - Internal Plasterboard Stud Wall	0.7	NNE	Laundry	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.6	WNW	Bedroom 2	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	4.5	WNW	Bedroom 2	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	12.3	SSW	Bedroom 2	No	No
2 : FR5 - Internal Plasterboard Stud Wall	2.7	ESE	Bedroom 2	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	8.2	WNW	Bedroom 3	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	1.8	SSW	Bedroom 3	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	7.6	NNE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	14.2	WNW	Kitchen/Living	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	1	NNE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	1.7	ESE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	11.1	NNE	Kitchen/Living	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	8.7	WNW	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	5.5	SSW	Ensuite (Bed 2)	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	4.9	ESE	Ensuite (Bed 2)	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	123.8	

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	FR5 - 125mm concrete slab	13.8	Enclosed	R0.0	Carpet
Night 5	FR5 - 125mm concrete slab	5.5	Enclosed	R0.0	Carpet
Night 6	FR5 - 125mm concrete slab	8.3	Enclosed	R0.0	Tiles
Entry Study	FR5 - 125mm concrete slab	13.4	Enclosed	R0.0	Tiles
Bath	FR5 - 125mm concrete slab	3.4	Enclosed	R0.0	Tiles
Laundry	FR5 - 125mm concrete slab	2.6	Enclosed	R0.0	Tiles
Bedroom 2	FR5 - 125mm concrete slab	15.7	Enclosed	R0.0	Carpet
Bedroom 3	FR5 - 125mm concrete slab	12.9	Enclosed	R0.0	Carpet
Kitchen/Living	FR5 - 125mm concrete slab	50	Enclosed	R0.0	Tiles

Certificate Number: DNG78LA1QZ

Date of Certificate: 6 Jun 2019

★ Star rating: 7.2



Building Features

Ensuite (Bed 2)	FR5 - 125mm concrete slab	3.7	Enclosed	R0.0	Carpet
Ceiling type					
Location	Material			Added insulation	Roof space above
Ceiling penetrat	ions				
Location	Number Type		Width (mm)	Length (mm)	Seal/ unsealed
Ceiling fans					
Location	Number Diameter (mm)				
Roof type					
Material				Added insu	lation Roof colour
Slab:Slab - Suspen	ded Slab : 125mm: 125mm Suspen	ded Slab		0.0	medium

Certificate Number: DNG78LA1QZ

Date of Certificate: 6 Jun 2019

* Star rating: 7.2



Additional information

Explanatory notes

About this report

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Contact

Certificate Number: DPRV7CCY0F

Date of Certificate: 6 Jun 2019

★ Star rating: 7.8



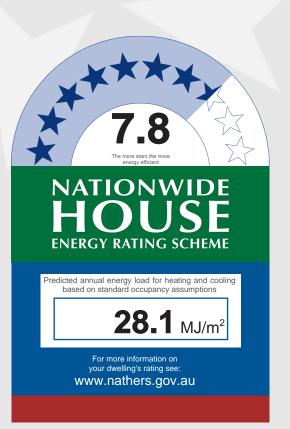
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Accreditation number:	VIC/BDAV/14/1658
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Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	401, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Туре:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		



Key	construction	and	insulation	materials
(000)	following pages fo	r dotai	le)	

(see following pages for details)

Net floor area (m²)

Conditioned:

Garage:

TOTAL:

Unconditioned:

Plan documents

Plan ref/date:

Prepared by:

Construction:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Insulation:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Glazing:	As indicated
	As indicated

77.6

82.9

5.3

Cei	ling	penetrations
000	falles	ving nagao far

(see following pages for details)

Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Window selection - default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

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https://www.fr5.com.au/QRCodeLand ing?PublicId=DPRV7CCY0F

Annual thermal

 (MJ/m^2)

Heating:

Cooling:

TOTAL:

Wolski Coppin Architecture

Project No. 21813

performance loads

7.3

20.8

Certificate Number: DPRV7CCY0F

Date of Certificate: 6 Jun 2019

★ Star rating: 7.8



Building Features

Windows type and performance value					
Window ID	Window type	U-value	SHGC		
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7		

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	bed 1	2100	1600	NNE	Bedroom 1	No
ALM-002-01 A	bed 2	2100	1200	WNW	Bedroom 2	No
ALM-002-01 A	living	1800	3600	NNE	Kitchen/Living	No
ALM-002-01 A	balcony	2100	2500	WNW	Kitchen/Living	No
ALM-002-01 A	kitchen	1200	2700	NNE	Kitchen/Living	No
ALM-002-01 A	kitchen	1200	1200	WNW	Kitchen/Living	No

Roof windows and	skylight type and performance value		
ID	Window type	U-value	SHGC
Roof window and	skylight schedule		
ID	Roof window/ skylight no. Area (m ²) Orientation Zone name	Outdoor shade	Indoor shade/ diffuser

External wall type					
Туре	Insulation	Insulation			
1 : AFS - AFS 162mm (75mm Glasswool)	Rockwool I	oatt (k = 0.03	3) (R2.3)		No
External wall schedule					
Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : AFS - AFS 162mm (75mm Glasswool)	8.3	ESE	Bedroom 1	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	7.8	NNE	Bedroom 1	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	7.4	WNW	Bedroom 2	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	8.7	SSW	Bedroom 2	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	6	ESE	ensuite	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	5.7	SSW	bath	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	4.6	SSW	laundry	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	2.2	ESE	laundry	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	6.4	SSW	entry	No	No

Certificate Number: DPRV7CCY0F

Date of Certificate: 6 Jun 2019

★ Star rating: 7.8



Building Features

1 : AFS - AFS 162mm (75mm Glasswool)	3.8	ESE	entry	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	10.5	NNE	Kitchen/Living	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	7.1	WNW	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	7.5	NNE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	6.2	WNW	Kitchen/Living	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	71.4	

Floors					
Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	FR5 - 150mm concrete slab Lined	16.5	Enclosed	R0.0	Tiles
Bedroom 2	FR5 - 150mm concrete slab Lined	10.9	Enclosed	R0.0	Tiles
ensuite	FR5 - 150mm concrete slab Lined	4.8	Enclosed	R0.0	Tiles
bath	FR5 - 150mm concrete slab Lined	3.6	Enclosed	R0.0	Tiles
laundry	FR5 - 150mm concrete slab Lined	1.7	Enclosed	R0.0	Tiles
entry	FR5 - 150mm concrete slab Lined	8.2	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 150mm concrete slab Lined	37.1	Enclosed	R0.0	Tiles

Ceiling type				
Location	Material		Added insulation	Roof space above
Ceiling penet	trations			
Location	Number Type	Width (mm)	Length (mm)	Seal/ unsealed
Ceiling fans				
Location	Number Diameter (mm)			
Roof type				
Material			Added insu	lation Roof colour
Slab:Slab - Sus	pended Slab : 150mm: 150mm Suspended Sla	ab	0.0	medium

Certificate Number: DPRV7CCY0F

Date of Certificate: 6 Jun 2019

★ Star rating: 7.8



Additional information

Explanatory notes

About this report

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Contact

Certificate Number: E7FH4EBFOJ

Date of Certificate: 6 Jun 2019

★ Star rating: 6.6



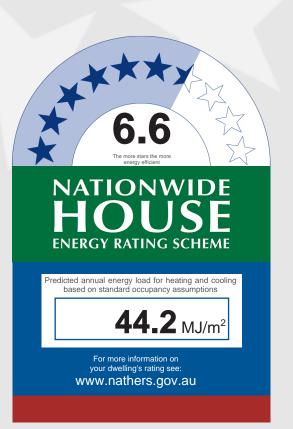
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	701, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Type:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	open		



Key construction	and	insulation	materials
(see following pages fo	r deta	ils)	

(see following pages for details)

Net floor area (m²)

Conditioned:

Garage:

TOTAL:

Unconditioned:

Plan documents

Plan ref/date:

Prepared by:

Construction:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Insulation:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Glazing:	As inc	licated
	As inc	licated

126.7

129.3

2.6

Ceiling penetrations

(see following pages for details)

Sealed:	0
Unsealed:	0
TOTAL:**	0

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Principal downlight type:

Compact fluorescent

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

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dwelling will need to be rerated to confirm compliance.

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https://www.fr5.com.au/QRCodeLand ing?PublicId=E7FH4EBFOJ

Annual thermal

 (MJ/m^2)

Heating:

Cooling:

TOTAL:

Wolski Coppin Architecture

Project No. 21813

performance loads

24.6

19.6

Certificate Number: E7FH4EBFOJ

Date of Certificate: 6 Jun 2019

★ Star rating: 6.6



Building Features

Windows type and performance value					
Window ID	Window type	U-value	SHGC		
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7		

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	Opening 60	2100	2700	NNE	Bedroom 1	No
ALM-002-01 A	Opening 65	2100	1100	WNW	Bedroom 2	No
ALM-002-01 A	Opening 63	2100	1500	WNW	Bedroom 2	No
ALM-002-01 A	Opening 62	2100	702	WNW	Bedroom 3	No
ALM-002-01 A	Opening 61	2100	503	SSW	Bedroom 3	No
ALM-002-01 A	Opening 57	2100	2400	NNE	Kitchen/Living	No
ALM-002-01 A	Opening 64	2100	3000	WNW	Kitchen/Living	No
ALM-002-01 A	Opening 59	2100	3700	NNE	Kitchen/Living	No
ALM-002-01 A	Opening 58	2100	2720	WNW	Kitchen/Living	No

ID	Window type				U-value	SHGC
Roof wind	ow and skylight schedule					
ID	Roof window/ skylight	no. Area (m ²	²) Orientatio	on Zone name		ndoor shade diffuser
External w	vall type					
Туре		Insulation	Insulation			Wall wrap
1 : AFS - AFS 162mm (75mm Glasswool)		Rockwool batt (k = 0.033) (R2.3)				
1 : AFS - AF	S 162mm (75mm Glasswool)	Rockwool I	oatt (k = 0.03	3) (R2.3)		No
	S 162mm (75mm Glasswool)	_ Rockwool I	oatt (k = 0.03	3) (R2.3)		No
External w	, , , , , , , , , , , , , , , , ,	Area (m ²)	oatt (k = 0.03 Orientation		Fixed shade	No
External w Wall type	, , , , , , , , , , , , , , , , ,		X		Fixed shade No	
External w Wall type 1 : AFS - AF	vall schedule	Area (m ²)	Orientation	Zone name		Eaves
External w Wall type 1 : AFS - AF 1 : AFS - AF	vall schedule S 162mm (75mm Glasswool)	Area (m²)	Orientation	Zone name Bedroom 1	No	Eaves Yes
External w Wall type 1 : AFS - AF 1 : AFS - AF 1 : AFS - AF	Vall schedule TS 162mm (75mm Glasswool) TS 162mm (75mm Glasswool)	Area (m ²) 10.8 9.3	Orientation ESE NNE	Zone name Bedroom 1 Bedroom 1	No Yes	Eaves Yes Yes
External w Wall type 1 : AFS - AF 1 : AFS - AF 1 : AFS - AF 1 : AFS - AF	vall schedule FS 162mm (75mm Glasswool) FS 162mm (75mm Glasswool) FS 162mm (75mm Glasswool)	Area (m ²) 10.8 9.3 0.8	Orientation ESE NNE SSW	Zone name Bedroom 1 Bedroom 1 Night 6	No Yes Yes	Eaves Yes Yes No

Certificate Number: E7FH4EBFOJ

Date of Certificate: 6 Jun 2019

★ Star rating: 6.6



Building Features

1 : AFS - AFS 162mm (75mm Glasswool)	5.2	SSW	Laundry	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.7	ESE	Laundry	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	0.7	NNE	Laundry	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.6	WNW	Bedroom 2	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	4.5	WNW	Bedroom 2	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	12.3	SSW	Bedroom 2	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	2.7	ESE	Bedroom 2	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	8.2	WNW	Bedroom 3	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	1.8	SSW	Bedroom 3	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	7.6	NNE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	14.2	WNW	Kitchen/Living	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	1	NNE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	1.7	ESE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	11.1	NNE	Kitchen/Living	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	8.7	WNW	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	5.5	SSW	Ensuite (Bed 2)	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	4.9	ESE	Ensuite (Bed 2)	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	123.8	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	FR5 - 125mm concrete slab	13.8	Enclosed	R0.0	Carpet
Night 5	FR5 - 125mm concrete slab	5.5	Enclosed	R0.0	Carpet
Night 6	FR5 - 125mm concrete slab	8.3	Enclosed	R0.0	Tiles
Entry Study	FR5 - 125mm concrete slab	13.4	Enclosed	R0.0	Tiles
Bath	FR5 - 125mm concrete slab	3.4	Enclosed	R0.0	Tiles
Laundry	FR5 - 125mm concrete slab	2.6	Enclosed	R0.0	Tiles
Bedroom 2	FR5 - 125mm concrete slab	15.7	Enclosed	R0.0	Carpet
Bedroom 3	FR5 - 125mm concrete slab	12.9	Enclosed	R0.0	Carpet
Kitchen/Living	FR5 - 125mm concrete slab	50	Enclosed	R0.0	Tiles
Ensuite (Bed 2)	FR5 - 125mm concrete slab	3.7	Enclosed	R0.0	Carpet

Certificate Number: E7FH4EBFOJ

Date of Certificate: 6 Jun 2019

★ Star rating: 6.6



Building Features

Ceiling type						
Location	Material	Material				
Bedroom 1	Plasterboard	R3.0	No			
Night 6	Plasterboard		R3.0	No		
Entry Study	Plasterboard		R3.0	No		
Bath	Plasterboard		R3.0	No		
Laundry	Plasterboard		R3.0	No		
Bedroom 2	Plasterboard		R3.0	No		
Bedroom 3	Plasterboard		R3.0	No	No	
Kitchen/Living	Plasterboard	R3.0 No				
Ensuite (Bed 2)	Plasterboard		R3.0 No		0	
Ceiling penetrat	ions					
Location	Number Type	Width (mm)	Length (mm)	Sea	l/ unsealed	
Ceiling fans						
Location	Number Diameter (mm)					
Roof type						
Material				ulation	Roof colour	
	Material Slab:Slab - Suspended Slab : 125mm: 125mm Suspended Slab			0.0		

Certificate Number: E7FH4EBFOJ

Date of Certificate: 6 Jun 2019

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Additional information

Explanatory notes

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Contact

Certificate Number: EHIXSEM764

Date of Certificate: 6 Jun 2019

★ Star rating: 6.2



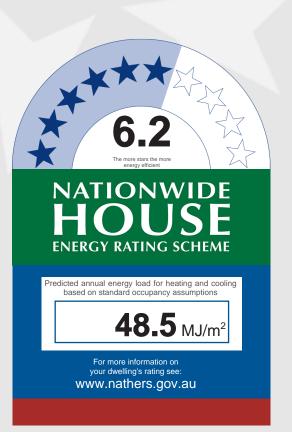
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Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	307, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Туре:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		



Key	construction	and	insulation	materials
(000)	following pages for	r dotai	le)	

(see following pages for details)

Net floor area (m²)

Conditioned:

Garage:

TOTAL:

Unconditioned:

Plan documents

Plan ref/date:

Prepared by:

Construction:	Wall: As indicated	
	Roof: As indicated	
	Floor: As indicated	
Insulation:	Wall: As indicated	
	Roof: As indicated	
	Floor: As indicated	
Glazing:	As indicated	
	As indicated	

72.6

76.1

3.5

Ceiling penetrations

(see following pages for details)

Sealed:	0
Unsealed:	0
TOTAL:**	0

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Principal downlight type:

Compact fluorescent

Window selection default windows only

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Annual thermal

 (MJ/m^2)

Heating:

Cooling:

TOTAL:

Wolski Coppin Architecture

Project No. 21813

performance loads

23.9

24.6

Certificate Number: EHIXSEM764

Date of Certificate: 6 Jun 2019





Building Features

Windows type and performance value						
Window ID	Window type	U-value	SHGC			
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7			

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	21.135SW	2100	1350	SSW	Bedroom 1	No
ALM-002-01 A	21.045FW	2100	450	WNW	Bedroom 1	No
ALM-002-01 A	21.095SW	2100	950	SSW	Bedroom 2	No
ALM-002-01 A	21.045FW	2100	450	WNW	Bedroom 2	No
ALM-002-01 A	Opening 13	1500	2100	SSW	Kitchen/Living	No
ALM-002-01 A	Opening 14	1500	1300	SSW	Kitchen/Living	No
ALM-002-01 A	21.45SD	2100	4500	ESE	Kitchen/Living	No

Roof windows	and skylight type and performance value	
ID	Window type	U-value SHGC
Roof window	and skylight schedule	
ID	Roof window/ skylight no. Area (m ²) Orientation Zone name	Outdoor Indoor shade/ shade diffuser

External wall type						
Туре	Insulation	Insulation				
1 : AFS - AFS 200mm (75mm Glasswool)	Rockwool	Rockwool batt (k = 0.033) (R2.3)			No	
External wall schedule						
Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves	
1 : AFS - AFS 200mm (75mm Glasswool)	4	WNW	Entry	No	Yes	
1 : AFS - AFS 200mm (75mm Glasswool)	10.7	NNE	Entry	No	No	
1 : AFS - AFS 200mm (75mm Glasswool)	3.4	WNW	Ensuite	No	Yes	
1 : AFS - AFS 200mm (75mm Glasswool)	0.7	NNE	Ensuite	No	No	
1 : AFS - AFS 200mm (75mm Glasswool)	3.5	SSW	Bedroom 1	Yes	No	
1 : AFS - AFS 200mm (75mm Glasswool)	11	WNW	Bedroom 1	No	Yes	
1 : AFS - AFS 200mm (75mm Glasswool)	7	SSW	Bedroom 2	No	Yes	
1 : AFS - AFS 200mm (75mm Glasswool)	6.9	WNW	Bedroom 2	Yes	No	

Certificate Number: EHIXSEM764

Date of Certificate: 6 Jun 2019

★ Star rating: 6.2



Building Features

1 : AFS - AFS 200mm (75mm Glasswool)	3.7	NNE	Bathroom	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	5.5	ESE	Bathroom	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.3	NNE	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	9.5	SSW	Kitchen/Living	No	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	10.9	ESE	Kitchen/Living	No	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	2.1	NNE	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	9	ESE	Kitchen/Living	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	57.9	

Floors Covering Area (m²) Sub floor ventilation Added insulation Location Construction Entry FR5 - 125mm concrete slab 7.5 Enclosed R0.0 Tiles Ensuite FR5 - 125mm concrete slab 3.5 Enclosed R0.0 Tiles Bedroom 1 FR5 - 125mm concrete slab 14.3 Enclosed R0.0 Tiles Bedroom 2 FR5 - 125mm concrete slab 10.6 Enclosed R0.0 Tiles **Bathroom** FR5 - 125mm concrete slab 3.5 Enclosed R0.0 Tiles Kitchen/Living FR5 - 125mm concrete slab 36.7 Enclosed R0.0 Tiles

Ceiling type				
Location	Material		Added insulation	Roof space above
Ceiling pene	trations			
Location	Number Type	Width (mm)	Length (mm)	Seal/ unsealed
Ceiling fans				
Location	Number Diameter (mm)			
Roof type				
Material			Added insula	tion Roof colour
Slab:Slab - Sus	spended Slab : 125mm: 125mm Susp	ended Slab	0.0	medium

Certificate Number: EHIXSEM764

Date of Certificate: 6 Jun 2019

★ Star rating: 6.2



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Contact

Certificate Number: EV8KUAVVOH

Date of Certificate: 6 Jun 2019

★ Star rating: 7.8



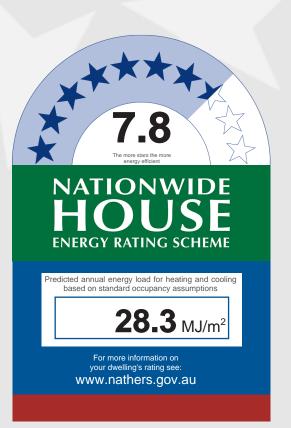
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Accreditation number:	VIC/BDAV/14/1658
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Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	105, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Туре:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		



Key construction and insulation materials

(see following pages for details)

Net floor area (m²)

Conditioned:

Garage:

TOTAL:

Unconditioned:

Plan documents

Plan ref/date:

Prepared by:

Construction:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Insulation:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Glazing:	As inc	licated
	As inc	dicated

69.9

73.6

3.7

Ceiling penetrations

(see following pages for details)

Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

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https://www.fr5.com.au/QRCodeLand ing?PublicId=EV8KUAVVOH

Annual thermal

 (MJ/m^2)

Heating:

Cooling:

TOTAL:

Wolski Coppin Architecture

Project No. 21813

performance loads

12

16.3

28.3

Certificate Number: EV8KUAVVOH

Date of Certificate: 6 Jun 2019

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Building Features

Windows type and	d performance value		
Window ID	Window type	U-value	SHGC
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	21.22SD	2100	2200	E	Bedroom 1	No
ALM-002-01 A	Opening 13	2100	2500	N	Living	No
ALM-002-01 A	Opening 11	2100	820	W	Living	No
ALM-002-01 A	21.045FW	2100	1250	E	Living	No
ALM-002-01 A	Opening 12	2100	1000	Ν	Bedroom 2	No

Roof windows and skylight type and performance value							
ID	Window type				U-value	SHGC	
Roof window and	skylight schedule						
ID	Roof window/ skylight no.	Area (m ²)	Orientation	Zone name		Indoor shade/ diffuser	

Туре	Insulation				Wall wrap	
1 : AFS - AFS 200mm (75mm Glasswool)	Rockwool I	oatt (k = 0.03	3) (R2.3)		No	
2 : FR5 - Internal Plasterboard Stud Wall					No	
External wall schedule						
Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves	
1 : AFS - AFS 200mm (75mm Glasswool)	4.6	W	Ensuite	Yes	Yes	
1 : AFS - AFS 200mm (75mm Glasswool)	4.1	Ν	Ensuite	No	No	
1 : AFS - AFS 200mm (75mm Glasswool)	11.7	Ν	Bedroom 1	No	No	
1 : AFS - AFS 200mm (75mm Glasswool)	7.1	E	Bedroom 1	Yes	Yes	
1 : AFS - AFS 200mm (75mm Glasswool)	6.7	Ν	Living	Yes	Yes	
2 : FR5 - Internal Plasterboard Stud Wall	0.5	Ν	Living	Yes	No	
1 : AFS - AFS 200mm (75mm Glasswool)	5.1	W	Living	Yes	Yes	
1 : AFS - AFS 200mm (75mm Glasswool)	9	S	Living	No	No	
1 : AFS - AFS 200mm (75mm Glasswool)	9.6	E	Living	No	No	

Certificate Number: EV8KUAVVOH

Date of Certificate: 6 Jun 2019

★ Star rating: 7.8



Building Features

1 : AFS - AFS 200mm (75mm Glasswool)	5.5	E	Bathroom	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.6	S	Bathroom	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.6	S	Bedroom 2	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	2.7	N	Bedroom 2	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	8	W	Bedroom 2	No	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	6.6	S	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	1.7	W	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.3	S	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.6	W	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	2.8	S	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	1.4	Е	Entry	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	59.2	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Ensuite	FR5 - 125mm concrete slab	3.3	Enclosed	R0.0	Tiles
Bedroom 1	FR5 - 125mm concrete slab	12.8	Enclosed	R0.0	Tiles
Living	FR5 - 125mm concrete slab	36	Enclosed	R0.0	Tiles
Bathroom	FR5 - 125mm concrete slab	3.7	Enclosed	R0.0	Tiles
Bedroom 2	FR5 - 125mm concrete slab	11.2	Enclosed	R0.0	Tiles
Entry	FR5 - 125mm concrete slab	6.5	Enclosed	R0.0	Tiles

Ceiling type				
Location	Material		Added insulation	Roof space above
Ceiling penetratio	ns			
Location	Number Type	Vidth (mm)	Length (mm)	Seal/ unsealed
Ceiling fans				
Location	Number Diameter (mm)			

Certificate Number: EV8KUAVVOH

Date of Certificate: 6 Jun 2019

★ Star rating: 7.8



Building Features

Roof type		
Material	Added insulation	Roof colour
Slab:Slab - Suspended Slab : 125mm: 125mm Suspended Slab	0.0	medium

Certificate Number: EV8KUAVVOH

Date of Certificate: 6 Jun 2019

★ Star rating: 7.8



Additional information

Explanatory notes

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Contact

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Certificate Number: FVFK03DJOU

Date of Certificate: 6 Jun 2019

★ Star rating: 7.3



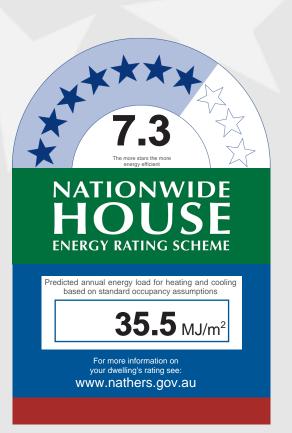
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	504, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Type:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	open		



Key construction	and	insulation	materials
(see following pages fo	r deta	ils)	

(see following pages for details)

Net floor area (m²)

Conditioned:

Garage:

TOTAL:

Unconditioned:

Plan documents

Plan ref/date:

Prepared by:

Construction:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Insulation:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Glazing:	As inc	licated
	As inc	licated

116.3

120.7

4.4

Ceiling	penetrations
and follo	uing pages for

(see following pages for details)

Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

If any of the windows selected are outside the 5% tolerance then this certificate is no longer valid and the

dwelling will need to be rerated to confirm compliance.

Scan to access this certificate online and confirm this is valid.



https://www.fr5.com.au/QRCodeLand ing?PublicId=FVFK03DJOU

Annual thermal

 (MJ/m^2)

Heating:

Cooling:

TOTAL:

Wolski Coppin Architecture

Project No. 21813

performance loads

20.6

14.9

35.5

Certificate Number: FVFK03DJOU

Date of Certificate: 6 Jun 2019





Building Features

Windows type an	Windows type and performance value		
Window ID	Window type	U-value	SHGC
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	Opening 69	2100	2600	ESE	Bedroom 1	No
ALM-002-01 A	Opening 67	2100	1500	SSW	Bedroom 1	No
ALM-002-01 A	Opening 70	2100	1800	SSW	Bedroom 2	No
ALM-002-01 A	Opening 71	2100	1500	ESE	Bedroom 2	No
ALM-002-01 A	Opening 66	2100	400	WNW	Bedroom 3	No
ALM-002-01 A	Opening 65	2100	1200	SSW	Bedroom 3	No
ALM-002-01 A	Opening 68	2100	400	WNW	Ensuite 1	No
ALM-002-01 A	Opening 72	2100	820	SSW	Kitchen/Living	No
ALM-002-01 A	Opening 74	2100	3660	ESE	Kitchen/Living	No
ALM-002-01 A	Opening 75	2100	922	NNE	Kitchen/Living	No

ID	Window type	U-value SHGC
Roof window a	nd skylight schedule	
ID	Roof window/ skylight no. Area (m ²) Orientation Zone name	Outdoor Indoor shade/ shade diffuser

Туре	Insulation	Wall wrap
1 : AFS - AFS 162mm (75mm Glasswool)	Rockwool batt (k = 0.033) (R2.3)	No

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : AFS - AFS 162mm (75mm Glasswool)	0.8	ESE	Bedroom 1	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	1.9	SSW	Bedroom 1	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	8.6	ESE	Bedroom 1	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	9.6	SSW	Bedroom 1	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	6	SSW	Bedroom 2	Yes	Yes

Certificate Number: FVFK03DJOU

Date of Certificate: 6 Jun 2019

★ Star rating: 7.3



Building Features

1 : AFS - AFS 162mm (75mm Glasswool)	8.4	ESE	Bedroom 2	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	9.8	WNW	Bedroom 3	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	3.4	SSW	Bedroom 3	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	0.8	NNE	Bedroom 3	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	7.8	WNW	Ensuite 1	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	4.9	SSW	Ensuite 1	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.3	WNW	Bath	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	6.6	NNE	Bath	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	1.1	WNW	Entry	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	0.8	SSW	Entry	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	4.3	WNW	Entry	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	1	ESE	Kitchen/Living	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.1	SSW	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	11.3	ESE	Kitchen/Living	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	9.7	NNE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	12.5	NNE	Kitchen/Living	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.5	WNW	Kitchen/Living	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	0.5	NNE	Kitchen/Living	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	95.9	

Floors					
Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	FR5 - 150mm concrete slab Lined	18.3	Enclosed	R0.0	Carpet
Bedroom 2	FR5 - 150mm concrete slab Lined	16.4	Enclosed	R0.0	Carpet
Bedroom 3	FR5 - 150mm concrete slab Lined	14.2	Enclosed	R0.0	Carpet
Ensuite 2	FR5 - 150mm concrete slab Lined	3.6	Enclosed	R0.0	Tiles
Ensuite 1	FR5 - 150mm concrete slab Lined	8	Enclosed	R0.0	Tiles
Hallway	FR5 - 150mm concrete slab Lined	4.9	Enclosed	R0.0	Tiles
Bath	FR5 - 150mm concrete slab Lined	4.4	Enclosed	R0.0	Tiles
Entry	FR5 - 150mm concrete slab Lined	3.5	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 150mm concrete slab Lined	47.6	Enclosed	R0.0	Tiles

Certificate Number: FVFK03DJOU

Date of Certificate: 6 Jun 2019

★ Star rating: 7.3



Building Features

Ceiling type					
Location	Material			Added insulation	Roof space above
Ceiling penetration	ons				
Location	Number	Туре	Width (mm)	Length (mm)	Seal/ unsealed
Ceiling fans					
Location	Number	Diameter (mm)			
Roof type					
Material				Added insu	Ilation Roof colour
Slab:Slab - Suspend	ed Slab : 1	50mm: 150mm Suspended Slab		0.0	medium

Certificate Number: FVFK03DJOU

Date of Certificate: 6 Jun 2019

★ Star rating: 7.3



Additional information

Explanatory notes

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Certificate Number: FX18Y2N1RB

Date of Certificate: 6 Jun 2019

★ Star rating: 7.8



Assessor details

Accreditation	VIC/BDAV/14/1658
number:	VIC/DDAV/14/1000
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration	Employed by organisation constructing
of interest:	the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	205, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Туре:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		

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Key construction and insulation materials

(see following pages for details)

Net floor area (m²)

Conditioned:

Garage:

TOTAL:

Unconditioned:

Plan documents

Plan ref/date:

Prepared by:

Construction:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Insulation:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Glazing:	As indicated
	As indicated

69.9

73.6

3.7

Ceiling penetrations

(see following pages for details)

-	
Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on

page 2. If any of the windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be reacted to

dwelling will need to be rerated to confirm compliance.

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https://www.fr5.com.au/QRCodeLand ing?PublicId=FX18Y2N1RB

Annual thermal

 (MJ/m^2)

Heating:

Cooling:

TOTAL:

Wolski Coppin Architecture

Project No. 21813

performance loads

13.5

14.6

28.1

Certificate Number: FX18Y2N1RB

Date of Certificate: 6 Jun 2019





Building Features

Windows type and	Windows type and performance value					
Window ID	Window type	U-value	SHGC			
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7			

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	21.22SD	2100	2200	E	Bedroom 1	No
ALM-002-01 A	Opening 13	2100	2500	N	Living	No
ALM-002-01 A	Opening 11	2100	820	W	Living	No
ALM-002-01 A	21.045FW	2100	1250	E	Living	No
ALM-002-01 A	Opening 12	2100	1000	Ν	Bedroom 2	No

Roof window	vs and skylight type and performance value	
ID	Window type	U-value SHGC
	v and skylight schedule	
ID	Roof window/ skylight no. Area (m ²) Orientation Zone name	Outdoor Indoor shade/ shade diffuser

Туре	Insulation					
1 : AFS - AFS 200mm (75mm Glasswool)	Rockwool I	batt (k = 0.03	3) (R2.3)		No	
2 : FR5 - Internal Plasterboard Stud Wall		_				
External wall schedule						
Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves	
1 : AFS - AFS 200mm (75mm Glasswool)	4.6	W	Ensuite	Yes	Yes	
1 : AFS - AFS 200mm (75mm Glasswool)	4.1	Ν	Ensuite	No	No	
1 : AFS - AFS 200mm (75mm Glasswool)	11.7	Ν	Bedroom 1	No	No	
1 : AFS - AFS 200mm (75mm Glasswool)	7.1	E	Bedroom 1	Yes	Yes	
1 : AFS - AFS 200mm (75mm Glasswool)	6.7	Ν	Living	Yes	Yes	
2 : FR5 - Internal Plasterboard Stud Wall	0.5	N	Living	Yes	No	
1 : AFS - AFS 200mm (75mm Glasswool)	5.1	W	Living	Yes	Yes	
1 : AFS - AFS 200mm (75mm Glasswool)	9	S	Living	No	No	
1 : AFS - AFS 200mm (75mm Glasswool)	9.6	E	Living	No	No	

Certificate Number: FX18Y2N1RB

Date of Certificate: 6 Jun 2019

★ Star rating: 7.8



Building Features

1 : AFS - AFS 200mm (75mm Glasswool)	5.5	E	Bathroom	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.6	S	Bathroom	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.6	S	Bedroom 2	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	2.7	Ν	Bedroom 2	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	8	W	Bedroom 2	No	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	6.6	S	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	1.7	W	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.3	S	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.6	W	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	2.8	S	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	1.4	Е	Entry	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	59.2	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Ensuite	FR5 - 125mm concrete slab	3.3	Enclosed	R0.0	Tiles
Bedroom 1	FR5 - 125mm concrete slab	12.8	Enclosed	R0.0	Tiles
Living	FR5 - 125mm concrete slab	36	Enclosed	R0.0	Tiles
Bathroom	FR5 - 125mm concrete slab	3.7	Enclosed	R0.0	Tiles
Bedroom 2	FR5 - 125mm concrete slab	11.2	Enclosed	R0.0	Tiles
Entry	FR5 - 125mm concrete slab	6.5	Enclosed	R0.0	Tiles

Ceiling type					
Location	Material			Added insulation	Roof space above
Ceiling penetration	ons				
Location	Number	Туре	Width (mm)	Length (mm)	Seal/ unsealed
Ceiling fans					
Location	Number	Diameter (mm)			

Certificate Number: FX18Y2N1RB

Date of Certificate: 6 Jun 2019

★ Star rating: 7.8



Building Features

Roof type		
Material	Added insulation	Roof colour
Slab:Slab - Suspended Slab : 125mm: 125mm Suspended Slab	0.0	medium

Certificate Number: FX18Y2N1RB

Date of Certificate: 6 Jun 2019

★ Star rating: 7.8



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Certificate Number: G4LZG9E5U7

Date of Certificate: 6 Jun 2019

★ Star rating: 5.2



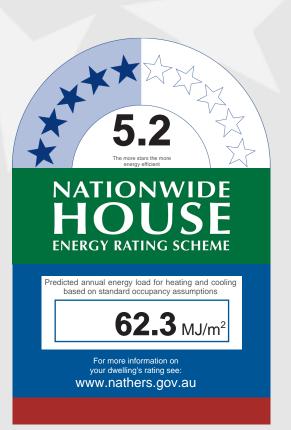
Assessor details

Accreditation	
number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration	Employed by organisation constructing
of interest:	the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	104, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Туре:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		



Key construction and insulation materials

(see following pages for details)

Net floor area (m²)

Conditioned:

Garage:

TOTAL:

Unconditioned:

Plan documents

Plan ref/date:

Prepared by:

Construction:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Insulation:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Glazing:	As indicated
	As indicated

74.2

80.1

5.9

Ceiling penetrations

(see following pages for details)

-	
Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

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dwelling will need to be rerated to confirm compliance.

Scan to access this certificate online and confirm this is valid.



https://www.fr5.com.au/QRCodeLand ing?PublicId=G4LZG9E5U7

Annual thermal

 (MJ/m^2)

Heating:

Cooling:

TOTAL:

Wolski Coppin Architecture

Project No. 21813

performance loads

43.6

18.7

62.3

Certificate Number: G4LZG9E5U7

Date of Certificate: 6 Jun 2019

★ Star rating: 5.2



Building Features

Windows type and performance value					
Window ID	Window type	U-value	SHGC		
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7		

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	bed 1	2100	600	ESE	Bedroom 1	No
ALM-002-01 A	bed 1	2100	600	ESE	Bedroom 1	No
ALM-002-01 A	bed 2	2100	1600	SSW	Bedroom 2	No
ALM-002-01 A	kitchen	2100	300	WNW	Kitchen/Living	No
ALM-002-01 A	dining	2100	1800	WNW	Kitchen/Living	No
ALM-002-01 A	balcony	2100	2400	SSW	Kitchen/Living	No
ALM-002-01 A	living	2100	2800	WNW	Kitchen/Living	No

Roof window	vs and skylight type and performance value	
ID	Window type	U-value SHGC
	v and skylight schedule	
ID	Roof window/ skylight no. Area (m ²) Orientation Zone name	Outdoor Indoor shade/ shade diffuser

External wall type					
Туре	Insulation				Wall wrap
1 : AFS - AFS 200mm (75mm Glasswool)	Rockwool	batt (k = 0.03	3) (R2.3)		No
External wall schedule					
Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : AFS - AFS 200mm (75mm Glasswool)	8.6	SSW	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	7.3	ESE	Bedroom 1	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.5	NNE	Bedroom 2	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	6.1	SSW	Bedroom 2	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	8.5	ESE	Bedroom 2	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.4	SSW	laundry	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.3	ESE	laundry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	4.6	NNE	laundry	No	No

Certificate Number: G4LZG9E5U7

Date of Certificate: 6 Jun 2019

★ Star rating: 5.2



Building Features

1 : AFS - AFS 200mm (75mm Glasswool)	3.4	WNW	bath	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	5.7	NNE	bath	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.5	WNW	entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.8	ESE	entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	8.5	WNW	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	6.5	SSW	Kitchen/Living	Yes	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	8	WNW	Kitchen/Living	Yes	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	9.1	SSW	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	19.8	NNE	Kitchen/Living	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	64	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	FR5 - 150mm concrete slab	12.7	Enclosed	R0.0	Carpet
Bedroom 2	FR5 - 150mm concrete slab	12	Enclosed	R0.0	Carpet
laundry	FR5 - 150mm concrete slab	2.6	Enclosed	R0.0	Tiles
bath	FR5 - 150mm concrete slab	3.3	Enclosed	R0.0	Tiles
ensuite	FR5 - 150mm concrete slab	3.7	Enclosed	R0.0	Tiles
entry	FR5 - 150mm concrete slab	7.4	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 150mm concrete slab	38.5	Enclosed	R0.0	Tiles

Ceiling type Location Material Added insulation Roof space above Ceiling penetrations Location Number Type Width (mm) Length (mm) Seal/ unsealed Ceiling fans Location Number Diameter (mm) Location Location

Roof type

Certificate Number: G4LZG9E5U7

Date of Certificate: 6 Jun 2019

★ Star rating: **5.2**



Building Features

Material	Added insulation	Roof colour
Slab:Slab - Suspended Slab : 150mm: 150mm Suspended Slab	0.0	medium

Certificate Number: G4LZG9E5U7

Date of Certificate: 6 Jun 2019

★ Star rating: 5.2



Additional information

Explanatory notes

About this report

Residential energy ratings address the quality of the building fabric i.e. walls, windows, floors and roof/ceilings. Ratings do not cover the energy or water efficiency of appliances including heating and cooling, hot water, dishwashers, ovens, fridges, TVs etc. or solar panel or water tank requirements. The efficiency or specification of these items is generally covered by other regulations, standards or guidelines.

General Information

A NatHERS House Energy Rating is a comprehensive, dynamic computer modelling evaluation of the floorplans, elevations and specifications to predict an energy load of a home. Not all of us use our homes in the same way, so ratings are generated using standard assumptions. This means homes can be compared across the country.

The actual energy consumption of your home may vary significantly from the predicted energy load figures in this report depending on issues such as the size of your household and your personal preferences, e.g. in terms of heating or cooling.

While the figures are an indicative guide to energy use, they can be used as a reliable guide for comparative purposes between different house designs and for demonstrating that the design meets the required regulatory compliance.

Homes that are energy efficient use less energy, are warmer in winter, cooler in summer and cost less to run. The higher the star rating the more energy efficient.

This NatHERS House Energy Rating report was carefully prepared by your assessor on the basis of comprehensive modelling using standard procedures to rate your home using an underlying engine developed by the Australian Commonwealth Scientific and Industrial Research Organisation (CSIRO).

All information relating to energy loads presented in this report is based on a range of standard assumptions in order to allow for comparisons with reports prepared for other homes and to demonstrate minimum regulatory compliance. The standard assumptions include figures for occupancy, indoor air temperature and are based on a unique climate file for your region.

Accredited Assessors

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Certificate Number: IB97S9GUWI

Date of Certificate: 6 Jun 2019





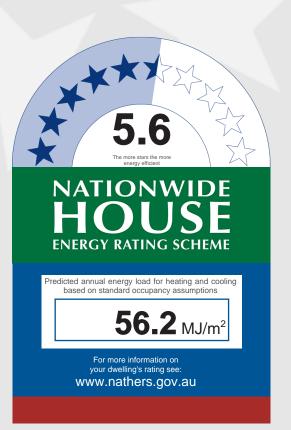
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	102, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Type:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		



Key construction and insulation materials

(see following pages for details)

Net floor area (m²)

Conditioned:

Garage:

TOTAL:

Unconditioned:

Plan documents

Plan ref/date:

Prepared by:

Construction:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Insulation:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Glazing:	As indicated
	As indicated

84.4

1.8

86.2

Ceiling penetrations

(see following pages for details)

Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Window selection - default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

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https://www.fr5.com.au/QRCodeLand ing?PublicId=IB97S9GUWI

Annual thermal

 (MJ/m^2)

Heating:

Cooling:

TOTAL:

Wolski Coppin Architecture

Project No. 21813

performance loads

38.1

18.1

56.2

Certificate Number: IB97S9GUWI

Date of Certificate: 6 Jun 2019

★ Star rating: 5.6



Building Features

Windows type and performance value						
Window ID	Window type	U-value	SHGC			
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7			

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	bae 1	2100	1600	WNW	Bedroom 1	No
ALM-002-01 A	bad 2	2100	2620	WNW	Bedroom 2	No
ALM-002-01 A	balcony	2100	2700	NNE	Kitchen/Living	No
ALM-002-01 A	living	2100	1800	WNW	Kitchen/Living	No

Roof windows and	d skylight type and perf	ormance v	alue			
ID	Window type				U-value	SHGC
Roof window and	skylight schedule					
ID	Roof window/ skylight no.	Area (m ²)	Orientation	Zone name		Indoor shade/ diffuser

External wall type

Туре	Insulation	Wall wrap
1 : AFS - AFS 200mm (75mm Glasswool)	Rockwool batt (k = 0.033) (R2.3)	No

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : AFS - AFS 200mm (75mm Glasswool)	1.4	WNW	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.7	NNE	Bedroom 1	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	4.4	WNW	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.7	SSW	Bedroom 1	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	2.1	WNW	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	9.5	SSW	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	10.2	NNE	Bedroom 2	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	7.9	WNW	Bedroom 2	Yes	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	7.9	ESE	Bedroom 2	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	5.8	SSW	bath	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.8	NNE	laundry	No	No

Certificate Number: IB97S9GUWI

Date of Certificate: 6 Jun 2019

★ Star rating: 5.6



Building Features

1 : AFS - AFS 200mm (75mm Glasswool)	3.4	SSW	laundry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.8	ESE	laundry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	4.1	ESE	entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	14.5	SSW	Hall way	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.6	ESE	Hall way	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	6.4	NNE	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.5	WNW	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	7.8	NNE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	2.4	WNW	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.6	NNE	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	5	WNW	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.7	SSW	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	2.7	WNW	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	1.4	ESE	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	8.6	NNE	study	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.7	SSW	study	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	4.7	ESE	study	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	96.8	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	FR5 - 150mm concrete slab	10.6	Enclosed	R0.0	Carpet
Bedroom 2	FR5 - 150mm concrete slab	11	Enclosed	R0.0	Carpet
ensuite	FR5 - 150mm concrete slab	3.3	Enclosed	R0.0	Tiles
dressing	FR5 - 150mm concrete slab	3.6	Enclosed	R0.0	Carpet
bath	FR5 - 150mm concrete slab	3.5	Enclosed	R0.0	Tiles
laundry	FR5 - 150mm concrete slab	1.8	Enclosed	R0.0	Tiles
entry	FR5 - 150mm concrete slab	4.2	Enclosed	R0.0	Tiles
Hall way	FR5 - 150mm concrete slab	7.2	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 150mm concrete slab	34.6	Enclosed	R0.0	Tiles
study	FR5 - 150mm concrete slab	6.3	Enclosed	R0.0	Carpet

Certificate Number: IB97S9GUWI

Date of Certificate: 6 Jun 2019

★ Star rating: 5.6



Building Features

Ceiling type				
Location	Material		Added insulation	Roof space above
Ceiling penetration	ons			
Location	Number Type	Width (mm) Length (mm)	Seal/ unsealed
Ceiling fans				
Location	Number Diameter (mm)			
Roof type				
Material			Added insu	ulation Roof colour
Slab:Slab - Suspend	ed Slab : 150mm: 150mm Susper	nded Slab	0.0	medium

Certificate Number: IB97S9GUWI

Date of Certificate: 6 Jun 2019

★ Star rating: 5.6



Additional information

Explanatory notes

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Contact

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Certificate Number: JVPHUSFE8L

Date of Certificate: 6 Jun 2019

★ Star rating: 7.1



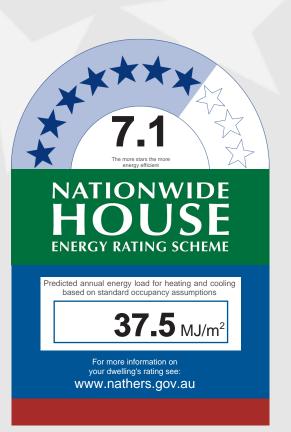
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	602, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Type:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	open		



Key construction and insulation m	atoriale
Ney construction and insulation in	altiais
(and following pages for datails)	

(see following pages for details)

Construction:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Insulation:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Glazing:	As inc	licated
	As inc	dicated

Ceiling penetrations

(see following pages for details)

Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Net floor area (m ²)		An
Conditioned: Unconditioned: Garage: TOTAL:	132.6 3.7 - 136.3	(M He Co
		ТО

Annual thermal performance loads (MJ/m ²)			
Heating:	16		
Cooling:	21.5		
TOTAL:	37.5		

Plan documents

Plan ref/date:	Project No. 21813
Prepared by:	Wolski Coppin Architecture

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

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https://www.fr5.com.au/QRCodeLand ing?PublicId=JVPHUSFE8L

Certificate Number: JVPHUSFE8L

Date of Certificate: 6 Jun 2019





Building Features

Windows type and performance value					
Window ID	Window type	U-value	SHGC		
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7		

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	bed 1	2100	2000	WNW	Bedroom 3	No
ALM-002-01 A	bed 2	2100	1600	SSW	Bedroom 1	No
ALM-002-01 A	balcony	2100	3500	WNW	Kitchen/Living	No
ALM-002-01 A	dining	2100	2500	WNW	Kitchen/Living	No
ALM-002-01 A	Opening 28	2100	500	SSW	Kitchen/Living	No
ALM-002-01 A	Opening 36	2100	950	SSW	Kitchen/Living	No
ALM-002-01 A	Opening 37	2100	950	SSW	Kitchen/Living	No
ALM-002-01 A	Opening 38	2100	1900	WNW	Bedroom 2	No

ID	Window type				U-value	SHGC
Roof windo	ow and skylight schedule					
ID	Roof window/ skylight	no. Area (m ²	²) Orientation	on Zone name		ndoor shade liffuser
External wa	all type					
Туре		Insulation				Wall wrap
1 : AFS - AFS	S 162mm (75mm Glasswool)	Rockwool I	Rockwool batt (k = 0.033) (R2.3)			No
External wa	all schedule					
		Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
Wall type	S 162mm (75mm Glasswool)	Area (m ²)	Orientation NNE	Zone name Bedroom 3	Fixed shade No	Eaves
Wall type 1 : AFS - AFS						
Wall type 1 : AFS - AFS 1 : AFS - AFS	S 162mm (75mm Glasswool)	1.7	NNE	Bedroom 3	No	No
Wall type 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS	S 162mm (75mm Glasswool) S 162mm (75mm Glasswool)	1.7 7.3	NNE WNW	Bedroom 3 Bedroom 3	No Yes	No Yes
Wall type 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS	S 162mm (75mm Glasswool) S 162mm (75mm Glasswool) S 162mm (75mm Glasswool)	1.7 7.3 5.7	NNE WNW SSW	Bedroom 3 Bedroom 3 Bedroom 1	No Yes Yes	No Yes No
Wall type 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS	S 162mm (75mm Glasswool) S 162mm (75mm Glasswool) S 162mm (75mm Glasswool) S 162mm (75mm Glasswool)	1.7 7.3 5.7 10.4	NNE WNW SSW ESE	Bedroom 3 Bedroom 3 Bedroom 1 Bedroom 1	No Yes Yes No	No Yes No Yes

Certificate Number: JVPHUSFE8L

Date of Certificate: 6 Jun 2019

★ Star rating: 7.1



Building Features

1 : AFS - AFS 162mm (75mm Glasswool)	4.3	NNE	entry	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	5.1	ESE	entry	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	17.9	WNW	Kitchen/Living	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	2	SSW	Kitchen/Living	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	1.3	WNW	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	18.1	SSW	Kitchen/Living	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	7.9	ESE	Kitchen/Living	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	7.9	ESE	Ensuite	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	2.1	WNW	Bedroom 2	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	5.3	WNW	Bedroom 2	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	10.3	NNE	Bedroom 2	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	110.8	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 3	FR5 - 150mm concrete slab Lined	14.8	Enclosed	R0.0	Carpet
Bedroom 1	FR5 - 150mm concrete slab Lined	19.5	Enclosed	R0.0	Carpet
ensuite	FR5 - 150mm concrete slab Lined	3.8	Enclosed	R0.0	Tiles
laundry	FR5 - 150mm concrete slab Lined	2.3	Enclosed	R0.0	Tiles
bath	FR5 - 150mm concrete slab Lined	3.7	Enclosed	R0.0	Tiles
entry	FR5 - 150mm concrete slab Lined	9.8	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 150mm concrete slab Lined	61.8	Enclosed	R0.0	Tiles
Ensuite	FR5 - 125mm concrete slab	6.3	Enclosed	R0.0	Tiles
Bedroom 2	FR5 - 125mm concrete slab	14.3	Enclosed	R0.0	Carpet

Ceiling type					
Location	Material	Added insulation	Roof space above		
Ensuite	Plasterboard	R3.0	No		
Bedroom 2	Plasterboard	R3.0	No		

Ceiling penetrations

Certificate Number: JVPHUSFE8L

Date of Certificate: 6 Jun 2019

★ Star rating: 7.1



Building Features

Location	Number Type	Width (mm)	Length (mm) Sea	al/ unsealed
Ceiling fans				
Location	Number Diameter (mm)			
Roof type				
Material			Added insulation	Roof colour
Slab:Slab - Suspended Slab : 150mm: 150mm Suspended Slab 0.0				
Slab:Slab - Suspended Slab : 125mm: 125mm Suspended Slab 0.0 med				

Certificate Number: JVPHUSFE8L

Date of Certificate: 6 Jun 2019

★ Star rating: 7.1



Additional information

Explanatory notes

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Certificate Number: KK36MNI569

Date of Certificate: 6 Jun 2019





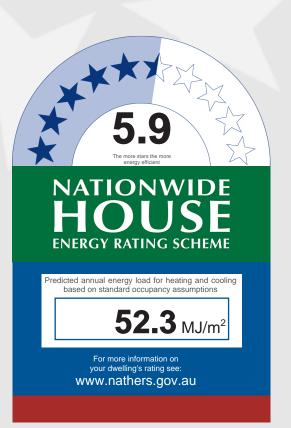
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	405, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Туре:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		



Key construction and insulation materials

(see following pages for details)

Net floor area (m²)

Conditioned:

Garage:

TOTAL:

Unconditioned:

Plan documents

Plan ref/date:

Prepared by:

Construction:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Insulation:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Glazing:	As inc	licated
	As inc	dicated

72.5

4.1

76.6

Ceiling penetrations

(see following pages for details)

-	
Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on

page 2. If any of the windows selected are outside the 5% tolerance then this certificate is no longer valid and the

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Scan to access this certificate online and confirm this is valid.



https://www.fr5.com.au/QRCodeLand ing?PublicId=KK36MNI569

Annual thermal

 (MJ/m^2)

Heating:

Cooling:

TOTAL:

Wolski Coppin Architecture

Project No. 21813

performance loads

36.6

15.7

52.3

Certificate Number: KK36MNI569

Date of Certificate: 6 Jun 2019

★ Star rating: 5.9



Building Features

Windows type an	d performance value		
Window ID	Window type	U-value	SHGC
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	21.12SD	2100	1200	ESE	Bedroom 1	No
ALM-002-01 A	Opening 9	1500	3000	ESE	Bedroom 2	No
ALM-002-01 A	21.36SD	2100	3600	ESE	Kitchen/Living	No
ALM-002-01 A	Opening 10	1500	1200	NNE	Kitchen/Living	No

Roof windows and	d skylight type and perf	ormance v	alue			
ID	Window type				U-value	SHGC
Roof window and	skylight schedule					
ID	Roof window/ skylight no.	Area (m²)	Orientation	Zone name		Indoor shade/ diffuser

External wall type

Туре	Insulation	Wall wrap
1 : AFS - AFS 200mm (75mm Glasswool)	Rockwool batt (k = 0.033) (R2.3)	No

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : AFS - AFS 200mm (75mm Glasswool)	1.7	SSW	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	5.7	SSW	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	7.6	ESE	Bedroom 1	Yes	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	0.4	WNW	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	8.7	WNW	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	7.6	ESE	Bedroom 2	No	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	2.1	NNE	Bedroom 2	Yes	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	5.9	SSW	Bedroom 2	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	5.4	WNW	Ensuite	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.3	SSW	Ensuite	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3	SSW	Kitchen/Living	No	No

Certificate Number: KK36MNI569

Date of Certificate: 6 Jun 2019

★ Star rating: 5.9



Building Features

1 : AFS - AFS 200mm (75mm Glasswool)	10	ESE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	18.9	NNE	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	1.2	WNW	Bathroom	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.8	NNE	Bathroom	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.6	WNW	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	10.9	SSW	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.4	WNW	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.8	SSW	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	2.4	NNE	Entry	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	5.6	WNW	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.1	NNE	Entry	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	49.5	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	FR5 - 125mm concrete slab	13.6	Enclosed	R0.0	Tiles
Bedroom 2	FR5 - 125mm concrete slab	11.2	Enclosed	R0.0	Tiles
Ensuite	FR5 - 125mm concrete slab	3.1	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 125mm concrete slab	34.5	Enclosed	R0.0	Tiles
Bathroom	FR5 - 125mm concrete slab	4.1	Enclosed	R0.0	Tiles
Entry	FR5 - 125mm concrete slab	10.1	Enclosed	R0.0	Tiles

Ceiling type				
Location	Material		Added insulation	Roof space above
Ceiling penetratio	ns			
Location	Number Type	idth (mm)	Length (mm)	Seal/ unsealed
Ceiling fans				
Location	Number Diameter (mm)			

Certificate Number: KK36MNI569

Date of Certificate: 6 Jun 2019

★ Star rating: 5.9



Building Features

Roof type		
Material	Added insulation	Roof colour
Slab:Slab - Suspended Slab : 125mm: 125mm Suspended Slab	0.0	medium

Certificate Number: KK36MNI569

Date of Certificate: 6 Jun 2019

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Additional information

Explanatory notes

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Certificate Number: KL95VSNNH0

Date of Certificate: 6 Jun 2019

★ Star rating: 5.9



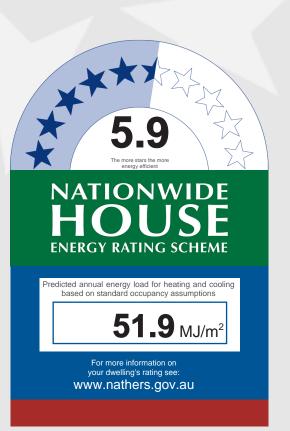
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	704, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Type:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	open		



Key construction	and insulation	materials
(see following pages for	r details)	

73

77

4

	 0.000	9 90	goo	 aotano	/
_					

Net floor area (m²)

Conditioned:

Garage:

TOTAL:

Unconditioned:

Plan documents

Plan ref/date:

Prepared by:

Construction:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Insulation:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Glazing:	As inc	licated
	As indicated	

Cei	ling	penetrations	
	falles	vina noaco for	

(see following pages for details)

Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on

page 2. If any of the windows selected are outside the 5% tolerance then this certificate is no longer valid and the

dwelling will need to be rerated to confirm compliance.

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https://www.fr5.com.au/QRCodeLand ing?PublicId=KL95VSNNH0

Annual thermal

 (MJ/m^2)

Heating:

Cooling:

TOTAL:

Wolski Coppin Architecture

Project No. 21813

performance loads

36.8

15.1

51.9

Certificate Number: KL95VSNNH0

Date of Certificate: 6 Jun 2019

★ Star rating: 5.9



Building Features

Windows type and performance value						
Window ID	Window type	U-value	SHGC			
ALM-002-03 A	Aluminium B SG High Solar Gain Low-E	5.4	0.58			
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7			
BRD-074-20 A	Sig Fixed Window 100 Internally Glazed DG 4-6Ar-4	3.78	0.7			

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-03 A	Opening 45	2100	3000	SSW	Bedroom 1	No
ALM-002-03 A	Opening 47	2100	2400	SSW	Bedroom 2	No
ALM-002-01 A	Opening 46	2100	450	SSW	Ensuite	No
BRD-074-20 A	Opening 44	2100	2100	SSW	Kitchen/Living	No
BRD-074-20 A	Opening 43	2100	1500	SSW	Kitchen/Living	No
BRD-074-20 A	Opening 42	2100	3000	ESE	Kitchen/Living	No
BRD-074-20 A	Opening 41	2100	1200	NNE	Kitchen/Living	No
BRD-074-20 A	Opening 54	1800	1500	ESE	Kitchen/Living	No
BRD-074-20 A	Opening 55	1800	700	ESE	Kitchen/Living	No

ID	Window type				U-value	SHGC
Poofwind	ow and skylight schodulo					
	ow and skylight schedule					
ID	Roof window/ skylight	no. Area (m²	²) Orientatio	on Zone name		ndoor shade liffuser
External w	all type					
Туре		Insulation				Wall wrap
1 : AFS - AF	S 162mm (75mm Glasswool)	Rockwool b	oatt (k = 0.03	3) (R2.3)		No
External w	all schedule					
	all schedule	(2)		-		-
External was	all schedule	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
Wall type	S 162mm (75mm Glasswool)	Area (m²) 8.4	Orientation SSW	Zone name Bedroom 1	Fixed shade No	Eaves Yes
Wall type 1 : AFS - AF						
Wall type 1 : AFS - AFS 1 : AFS - AFS	S 162mm (75mm Glasswool)	8.4	SSW	Bedroom 1	No	Yes

Certificate Number: KL95VSNNH0

Date of Certificate: 6 Jun 2019

★ Star rating: 5.9



Building Features

1 : AFS - AFS 162mm (75mm Glasswool)	0.6	NNE	Bedroom 2	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	4	SSW	Ensuite	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	4.3	WNW	Entry	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	7.7	NNE	Entry	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	5.7	WNW	Bath	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	5.1	NNE	Bath	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	6	WNW	Kitchen/Living	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	7.9	SSW	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	4.4	SSW	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	10.8	ESE	Kitchen/Living	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	7.1	NNE	Kitchen/Living	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	4.8	ESE	Kitchen/Living	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.2	ESE	Kitchen/Living	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	13.1	NNE	Kitchen/Living	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : WolskiCoppin - 10 - Internal Partition 64 Stud	59.4	Glass fibre batt (k = 0.044 density = 12 kg/m3) (R1.5)

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	FR5 - 150mm concrete slab Lined	13.4	Enclosed	R0.0	Carpet
Bedroom 2	FR5 - 150mm concrete slab Lined	11.1	Enclosed	R0.0	Carpet
Ensuite	FR5 - 150mm concrete slab Lined	3	Enclosed	R0.0	Tiles
Entry	FR5 - 150mm concrete slab Lined	6.5	Enclosed	R0.0	Tiles
Bath	FR5 - 150mm concrete slab Lined	4	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 150mm concrete slab Lined	39	Enclosed	R0.0	Tiles

Ceiling type					
Location	Material	Added insulation	Roof space above		
Bedroom 1	Plasterboard	R3.0	No		
Bedroom 2	Plasterboard	R3.0	No		
Ensuite	Plasterboard	R3.0	No		
Entry	Plasterboard	R3.0	No		

Certificate Number: KL95VSNNH0

Date of Certificate: 6 Jun 2019

★ Star rating: 5.9



Building Features

Bath	Plasterboard		R3.0	No	
Kitchen/Living	Plasterboard		R3.0	No	
Ceiling penetra	itions				
Location	Number Type	Width (mm)	Length (mm)	Seal	/ unsealed
Ceiling fans					
Location	Number Diameter (mm)				
Roof type					
Material			Added insu	ulation	Roof colou
Slab:Slab - Suspe	ended Slab : 150mm: 150mm Suspended Slab		0.0		medium

Certificate Number: KL95VSNNH0

Date of Certificate: 6 Jun 2019

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Contact

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Certificate Number: KUE1QLSM9C

Date of Certificate: 6 Jun 2019

★ Star rating: 6.2



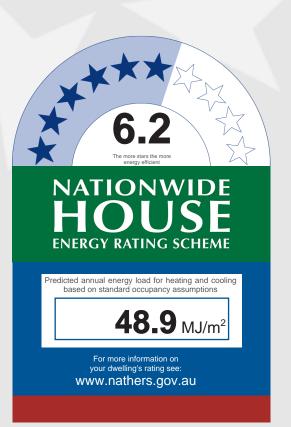
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	406, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Type:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		



Key construction and insulation materials

(see following pages for details)

Construction:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Insulation:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Glazing:	As indicated
	As indicated

Ceiling penetrations (see following pages for

details)

Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Net floor area (m²) **Annual thermal** performance loads 72.6 (MJ/m^2) 3.5 24.9 Heating: 76.1 Cooling: 24

TOTAL:

Plan documents

Conditioned:

Garage:

TOTAL:

Unconditioned:

Plan ref/date: Project No. 21813 Prepared by: Wolski Coppin Architecture

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

If any of the windows selected are outside the 5% tolerance then this certificate is no longer valid and the

dwelling will need to be rerated to confirm compliance.

Scan to access this certificate online and confirm this is valid.



//www.fr5.com au/QRCodeLand ing?PublicId=KUE1QLSM9C

48.9

Certificate Number: KUE1QLSM9C

Date of Certificate: 6 Jun 2019

★ Star rating: 6.2



Building Features

Windows type and performance value					
Window ID	Window type	U-value	SHGC		
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7		

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	21.135SW	2100	1350	SSW	Bedroom 1	No
ALM-002-01 A	21.045FW	2100	450	WNW	Bedroom 1	No
ALM-002-01 A	21.095SW	2100	950	SSW	Bedroom 2	No
ALM-002-01 A	21.045FW	2100	450	WNW	Bedroom 2	No
ALM-002-01 A	Opening 13	1500	2100	SSW	Kitchen/Living	No
ALM-002-01 A	Opening 14	1500	1300	SSW	Kitchen/Living	No
ALM-002-01 A	21.45SD	2100	4500	ESE	Kitchen/Living	No

Roof windows and skylight type and performance value					
ID	Window type	U-value SHGC			
Roof window	w and skylight schedule				
ID	Roof window/ skylight no. Area (m ²) Orientation Zo	one name Outdoor Indoor shade/ shade diffuser			

External wall type					
Туре	Insulation				Wall wrap
1 : AFS - AFS 200mm (75mm Glasswool)	Rockwool	batt (k = 0.03	patt (k = 0.033) (R2.3)		
External wall schedule					
Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : AFS - AFS 200mm (75mm Glasswool)	4	WNW	Entry	No	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	10.7	NNE	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.4	WNW	Ensuite	No	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	0.7	NNE	Ensuite	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.5	SSW	Bedroom 1	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	11	WNW	Bedroom 1	No	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	7	SSW	Bedroom 2	No	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	6.9	WNW	Bedroom 2	Yes	No

Certificate Number: KUE1QLSM9C

Date of Certificate: 6 Jun 2019

★ Star rating: 6.2



Building Features

1 : AFS - AFS 200mm (75mm Glasswool)	3.7	NNE	Bathroom	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	5.5	ESE	Bathroom	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.3	NNE	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	9.5	SSW	Kitchen/Living	No	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	10.9	ESE	Kitchen/Living	No	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	2.1	NNE	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	9	ESE	Kitchen/Living	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	57.9	

Floors Covering Area (m²) Sub floor ventilation Added insulation Location Construction Entry FR5 - 125mm concrete slab 7.5 Enclosed R0.0 Tiles Ensuite FR5 - 125mm concrete slab 3.5 Enclosed R0.0 Tiles Bedroom 1 FR5 - 125mm concrete slab 14.3 Enclosed R0.0 Tiles Bedroom 2 FR5 - 125mm concrete slab 10.6 Enclosed R0.0 Tiles **Bathroom** FR5 - 125mm concrete slab 3.5 Enclosed R0.0 Tiles Kitchen/Living FR5 - 125mm concrete slab 36.7 Enclosed R0.0 Tiles

Ceiling type					
Location	Material			Added insulation	Roof space above
Ceiling penet	trations				
Location	Number	Туре	Width (mm)	Length (mm)	Seal/ unsealed
Ceiling fans					
Location	Number	Diameter (mm)			
Roof type					
Material				Added insu	lation Roof colour
Slab:Slab - Sus	pended Slab : 1	0.0	medium		

Certificate Number: KUE1QLSM9C

Date of Certificate: 6 Jun 2019

★ Star rating: 6.2



Additional information

Explanatory notes

About this report

Residential energy ratings address the quality of the building fabric i.e. walls, windows, floors and roof/ceilings. Ratings do not cover the energy or water efficiency of appliances including heating and cooling, hot water, dishwashers, ovens, fridges, TVs etc. or solar panel or water tank requirements. The efficiency or specification of these items is generally covered by other regulations, standards or guidelines.

General Information

A NatHERS House Energy Rating is a comprehensive, dynamic computer modelling evaluation of the floorplans, elevations and specifications to predict an energy load of a home. Not all of us use our homes in the same way, so ratings are generated using standard assumptions. This means homes can be compared across the country.

The actual energy consumption of your home may vary significantly from the predicted energy load figures in this report depending on issues such as the size of your household and your personal preferences, e.g. in terms of heating or cooling.

While the figures are an indicative guide to energy use, they can be used as a reliable guide for comparative purposes between different house designs and for demonstrating that the design meets the required regulatory compliance.

Homes that are energy efficient use less energy, are warmer in winter, cooler in summer and cost less to run. The higher the star rating the more energy efficient.

This NatHERS House Energy Rating report was carefully prepared by your assessor on the basis of comprehensive modelling using standard procedures to rate your home using an underlying engine developed by the Australian Commonwealth Scientific and Industrial Research Organisation (CSIRO).

All information relating to energy loads presented in this report is based on a range of standard assumptions in order to allow for comparisons with reports prepared for other homes and to demonstrate minimum regulatory compliance. The standard assumptions include figures for occupancy, indoor air temperature and are based on a unique climate file for your region.

Accredited Assessors

To ensure you get a high-quality, professional NatHERS House Energy Rating report, you should always use an accredited assessor, accredited assessors are members of a professional body called an Assessor Accrediting Organisation (AAO).

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Contact

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Certificate Number: MZC4F2AO8S

Date of Certificate: 6 Jun 2019

★ Star rating: 6.8



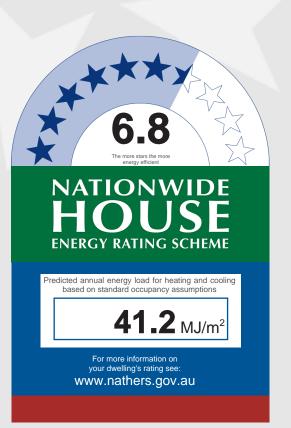
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	603, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Туре:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	open		



Key construction a	ind ir	nsulation	materials
(see following pages for o	details)	;)	

	•	,
Construction	Woll:	As indicated

Net floor area (m²)

Conditioned:

Garage:

TOTAL:

Unconditioned:

Plan documents

Plan ref/date:

Prepared by:

wall: As indicated
Roof: As indicated
Floor: As indicated
Wall: As indicated
Roof: As indicated
Floor: As indicated
As indicated
As indicated

118.8

126.2

7.4

Ceiling	penetrations
coo follo	ving pages for

(see following pages for details)

Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on

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https://www.fr5.com.au/QRCodeLand ing?PublicId=MZC4F2AO8S

Annual thermal

 (MJ/m^2)

Heating:

Cooling:

TOTAL:

Wolski Coppin Architecture

Project No. 21813

performance loads

19.2

41.2

22

Certificate Number: MZC4F2AO8S

Date of Certificate: 6 Jun 2019

★ Star rating: 6.8



Building Features

Windows type and performance value					
Window ID	Window type	U-value	SHGC		
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7		

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	bed 1 door	2100	920	NNE	Bedroom 1	No
ALM-002-01 A	bed 1	2100	1500	NNE	Bedroom 1	No
ALM-002-01 A	bed 2	2100	1300	ESE	Bedroom 2	No
ALM-002-01 A	bed 3	2100	1250	ESE	Bedroom 3	No
ALM-002-01 A	Opening 32	2100	2000	ESE	Kitchen/Living	No
ALM-002-01 A	lkitchen	2100	2473	NNE	Kitchen/Living	No
ALM-002-01 A	dining	2100	2750	ESE	Kitchen/Living	No
ALM-002-01 A	balcony	2100	4000	NNE	Kitchen/Living	No

ID	Window type				U-value	SHGC
						0.100
Roof windo	w and skylight schedule					
ID	Roof window/ skylight	no. Area (m ²	²) Orientati	on Zone name		ndoor shade diffuser
External wa	ill type					
Туре		Insulation	Insulation			
1 : AFS - AFS	162mm (75mm Glasswool)	Rockwool I	Rockwool batt (k = 0.033) (R2.3)			No
External wa Wall type	II schedule	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
Wall type	Il schedule	Area (m ²) 9.2	Orientation WNW	Zone name Bedroom 1	Fixed shade No	Eaves No
Wall type 1 : AFS - AFS						
Wall type 1 : AFS - AFS 1 : AFS - AFS	6 162mm (75mm Glasswool)	9.2	WNW	Bedroom 1	No	No
Wall type 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS	5 162mm (75mm Glasswool) 5 162mm (75mm Glasswool)	9.2 2.9	WNW NNE	Bedroom 1 Bedroom 1	No Yes	No Yes
Wall type 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS	5 162mm (75mm Glasswool) 5 162mm (75mm Glasswool) 5 162mm (75mm Glasswool)	9.2 2.9 4.7	WNW NNE NNE	Bedroom 1 Bedroom 1 Bedroom 1	No Yes Yes	No Yes Yes
Wall type 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS	5 162mm (75mm Glasswool) 5 162mm (75mm Glasswool) 5 162mm (75mm Glasswool) 5 162mm (75mm Glasswool)	9.2 2.9 4.7 6	WNW NNE NNE WNW	Bedroom 1 Bedroom 1 Bedroom 1 Bedroom 2	No Yes Yes No	No Yes Yes No

Certificate Number: MZC4F2AO8S

Date of Certificate: 6 Jun 2019

★ Star rating: 6.8



Building Features

1 : AFS - AFS 162mm (75mm Glasswool)	6.1	ESE	Bedroom 3	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	1.5	NNE	Bedroom 3	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.9	ESE	Bedroom 3	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	8.3	WNW	ensuite 1	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	0.8	SSW	ensuite 1	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	5	WNW	bath	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	4.6	SSW	bath	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	0.7	NNE	bath	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	2.6	SSW	laundry	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.9	WNW	entry	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	11.8	ESE	Kitchen/Living	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	7.5	NNE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	7.5	ESE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	11	NNE	Kitchen/Living	Yes	Yes

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	100.9	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	FR5 - 150mm concrete slab	18.2	Enclosed	R0.0	Tiles
Bedroom 2	FR5 - 150mm concrete slab	18.2	Enclosed	R0.0	Tiles
Bedroom 3	FR5 - 150mm concrete slab	15.3	Enclosed	R0.0	Tiles
ensuite 1	FR5 - 150mm concrete slab	7.3	Enclosed	R0.0	Tiles
bath	FR5 - 150mm concrete slab	4	Enclosed	R0.0	Tiles
laundry	FR5 - 150mm concrete slab	3.4	Enclosed	R0.0	Tiles
entry	FR5 - 150mm concrete slab	10.9	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 150mm concrete slab	48.8	Enclosed	R0.0	Tiles

Ceiling type		
Location	Material	Added insulation Roof space above
Ceiling penetr	ations	

Certificate Number: MZC4F2AO8S

Date of Certificate: 6 Jun 2019

★ Star rating: 6.8



Building Features

Location	Number	Туре	Width (mm)	Length (mm)	Seal/ unsealed
Ceiling fans					
Location	Number	Diameter (mm)			
Roof type					
Material				Added insulation	on Roof colour
Slab:Slab - Suspended Slab : 150mm: 150mm Suspended Slab 0.0 medium					medium

Certificate Number: MZC4F2AO8S

Date of Certificate: 6 Jun 2019

★ Star rating: 6.8



Additional information

Explanatory notes

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Contact

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Certificate Number: NPNC9JWD90

Date of Certificate: 6 Jun 2019

★ Star rating: 6.4



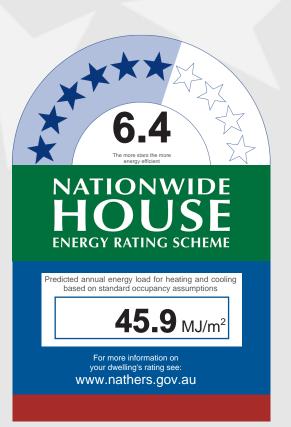
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	204, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Туре:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		



Key construction and insulation materials

(see following pages for details)

Net floor area (m²)

Conditioned:

Garage:

TOTAL:

Unconditioned:

Plan documents

Plan ref/date:

Prepared by:

Construction:	Wall: As indicate	ed
	Roof: As indicate	ed
	Floor: As indicate	ed
Insulation:	Wall: As indicate	ed
	Roof: As indicate	ed
	Floor: As indicate	ed
Glazing:	As indicated	
	As indicated	

74.2

80.1

5.9

Ceiling penetrations

(see following pages for details)

-	
Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on

page 2. If any of the windows selected are outside the 5% tolerance then this certificate is no longer valid and the

dwelling will need to be rerated to confirm compliance.

Scan to access this certificate online and confirm this is valid.



https://www.fr5.com.au/QRCodeLand ing?PublicId=NPNC9JWD9O

Annual thermal

 (MJ/m^2)

Heating:

Cooling:

TOTAL:

Wolski Coppin Architecture

Project No. 21813

performance loads

24.4

21.5

45.9

Certificate Number: NPNC9JWD90

Date of Certificate: 6 Jun 2019

★ Star rating: 6.4



Building Features

Windows type and performance value					
Window ID	Window type	U-value	SHGC		
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7		

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	bed 1	2100	600	ESE	Bedroom 1	No
ALM-002-01 A	bed 1	2100	600	ESE	Bedroom 1	No
ALM-002-01 A	bed 2	2100	1600	SSW	Bedroom 2	No
ALM-002-01 A	kitchen	2100	300	WNW	Kitchen/Living	No
ALM-002-01 A	dining	2100	1800	WNW	Kitchen/Living	No
ALM-002-01 A	balcony	2100	2400	SSW	Kitchen/Living	No
ALM-002-01 A	living	2100	2800	WNW	Kitchen/Living	No

Roof windows and skylight type and performance value						
ID	Window type	U-value SHGC				
Roof window and	skylight schedule					
ID	Roof window/ skylight no. Area (m ²) Orientation Zone name	Outdoor Indoor shade/ shade diffuser				

External wall type					
Туре	Insulation				Wall wrap
1 : AFS - AFS 200mm (75mm Glasswool)	Rockwool	Rockwool batt (k = 0.033) (R2.3)			No
External wall schedule					
Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : AFS - AFS 200mm (75mm Glasswool)	8.6	SSW	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	7.3	ESE	Bedroom 1	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.5	NNE	Bedroom 2	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	6.1	SSW	Bedroom 2	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	8.5	ESE	Bedroom 2	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.4	SSW	laundry	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.3	ESE	laundry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	4.6	NNE	laundry	No	No

Certificate Number: NPNC9JWD90

Date of Certificate: 6 Jun 2019

★ Star rating: 6.4



Building Features

1 : AFS - AFS 200mm (75mm Glasswool)	3.4	WNW	bath	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	5.7	NNE	bath	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.5	WNW	entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.8	ESE	entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	8.5	WNW	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	6.5	SSW	Kitchen/Living	Yes	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	8	WNW	Kitchen/Living	Yes	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	9.1	SSW	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	19.8	NNE	Kitchen/Living	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	64	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	FR5 - 150mm concrete slab	12.7	Enclosed	R0.0	Carpet
Bedroom 2	FR5 - 150mm concrete slab	12	Enclosed	R0.0	Carpet
laundry	FR5 - 150mm concrete slab	2.6	Enclosed	R0.0	Tiles
bath	FR5 - 150mm concrete slab	3.3	Enclosed	R0.0	Tiles
ensuite	FR5 - 150mm concrete slab	3.7	Enclosed	R0.0	Tiles
entry	FR5 - 150mm concrete slab	7.4	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 150mm concrete slab	38.5	Enclosed	R0.0	Tiles

Ceiling type Location Material Added insulation Roof space above Ceiling penetrations Location Number Type Width (mm) Length (mm) Seal/ unsealed Ceiling fans Location Number Diameter (mm) Seal/ unsealed

Roof type

Certificate Number: NPNC9JWD90

Date of Certificate: 6 Jun 2019

★ Star rating: 6.4



Building Features

Material	Added insulation	Roof colour
Slab:Slab - Suspended Slab : 150mm: 150mm Suspended Slab	0.0	medium

Certificate Number: NPNC9JWD90

Date of Certificate: 6 Jun 2019

★ Star rating: 6.4



Additional information

Explanatory notes

About this report

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Disclaimer

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Contact

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Certificate Number: NQ2EQSHOY1

Date of Certificate: 6 Jun 2019

★ Star rating: 6.1



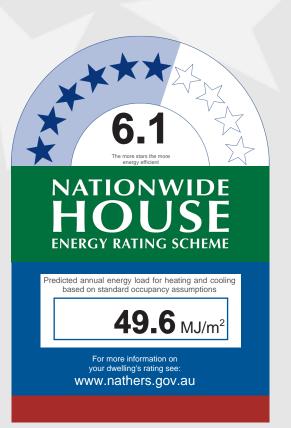
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	702, 26 Whistler Street MANLY				
State:	NSW	Postcode:	2095		
Type:	New Home	NCC Class:	Class 2		
Lot/DP		NatHERS			
number:	-	climate zone:	56		
Exposure:	open				



Key construction	and	insulation	materials
(see following pages for	r detai	ls)	

Construction:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Insulation:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Glazing:	As inc	licated
	As inc	licated

132.6

136.3

3.7

Net floor area (m²)

Conditioned:

Garage:

TOTAL:

Unconditioned:

Plan documents

Plan ref/date:

Prepared by:

Ceiling	penetrations
	ving pages for

details)

Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on

page 2. If any of the windows selected are outside the 5% tolerance then this certificate is no longer valid and the

dwelling will need to be rerated to confirm compliance.

Scan to access this certificate online and confirm this is valid.



https://www.fr5.com.au/QRCodeLand ing?PublicId=NQ2EQSHOY1

Annual thermal

 (MJ/m^2)

Heating:

Cooling:

TOTAL:

Wolski Coppin Architecture

Project No. 21813

performance loads

28.6

49.6

21

Certificate Number: NQ2EQSHOY1

Date of Certificate: 6 Jun 2019

★ Star rating: 6.1



Building Features

Windows type and performance value					
Window ID	Window type	U-value	SHGC		
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7		

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	bed 1	2100	2000	WNW	Bedroom 3	No
ALM-002-01 A	bed 2	2100	1600	SSW	Bedroom 1	No
ALM-002-01 A	balcony	2100	3500	WNW	Kitchen/Living	No
ALM-002-01 A	dining	2100	2500	WNW	Kitchen/Living	No
ALM-002-01 A	Opening 28	2100	500	SSW	Kitchen/Living	No
ALM-002-01 A	Opening 36	2100	950	SSW	Kitchen/Living	No
ALM-002-01 A	Opening 37	2100	950	SSW	Kitchen/Living	No
ALM-002-01 A	Opening 38	2100	1900	WNW	Bedroom 2	No

ID	Window type				U-value	SHGC
Poof window	and skylight schedule					
ID	Roof window/ skylight	no. Area (m ²	²) Orientati	on Zone name		ndoor shade diffuser
Endormal week	4-m					
External wall	туре					
Туре		Insulation				Wall wrap
1 : AFS - AFS 1	62mm (75mm Glasswool)	Rockwool I	batt (k = 0.03	3) (R2.3)		No
				o) (<u>_</u> .o)		
External wall	ashadula			., (
External wall	schedule					
	schedule	Area (m ²)	Orientation		Fixed shade	Eaves
Wall type	schedule 62mm (75mm Glasswool)	Area (m ²) 1.7			Fixed shade No	
Wall type 1 : AFS - AFS 1			Orientation	Zone name		Eaves
Wall type 1 : AFS - AFS 1 1 : AFS - AFS 1	62mm (75mm Glasswool)	1.7	Orientation	Zone name Bedroom 3	No	Eaves No
Wall type 1 : AFS - AFS 1 1 : AFS - AFS 1 1 : AFS - AFS 1	62mm (75mm Glasswool) 62mm (75mm Glasswool)	1.7 7.3	Orientation NNE WNW	Zone name Bedroom 3 Bedroom 3	No Yes	Eaves No Yes
Wall type 1 : AFS - AFS 1 1 : AFS - AFS 1 1 : AFS - AFS 1 1 : AFS - AFS 1	62mm (75mm Glasswool) 62mm (75mm Glasswool) 62mm (75mm Glasswool)	1.7 7.3 5.7	Orientation NNE WNW SSW	Zone name Bedroom 3 Bedroom 3 Bedroom 1	No Yes Yes	Eaves No Yes No
Wall type 1 : AFS - AFS 1 1 : AFS - AFS 1	162mm (75mm Glasswool) 162mm (75mm Glasswool) 162mm (75mm Glasswool) 162mm (75mm Glasswool)	1.7 7.3 5.7 10.4	Orientation NNE WNW SSW ESE	Zone name Bedroom 3 Bedroom 3 Bedroom 1 Bedroom 1	No Yes Yes No	Eaves No Yes No Yes

Certificate Number: NQ2EQSHOY1

Date of Certificate: 6 Jun 2019

★ Star rating: 6.1



Building Features

1 : AFS - AFS 162mm (75mm Glasswool)	4.3	NNE	entry	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	5.1	ESE	entry	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	17.9	WNW	Kitchen/Living	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	2	SSW	Kitchen/Living	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	1.3	WNW	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	18.1	SSW	Kitchen/Living	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	7.9	ESE	Kitchen/Living	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	7.9	ESE	Ensuite	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	2.1	WNW	Bedroom 2	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	5.3	WNW	Bedroom 2	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	10.3	NNE	Bedroom 2	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	110.8	

Floors

FR5 - 150mm concrete slab Lined FR5 - 150mm concrete slab Lined FR5 - 150mm concrete slab Lined	- <u>14.8</u> - <u>19.5</u> - <u>3.8</u>	Enclosed Enclosed	R0.0 R0.0	Carpet Carpet
			R0.0	Carpet
FR5 - 150mm concrete slab Lined	3.8			
	0.0	Enclosed	R0.0	Tiles
FR5 - 150mm concrete slab Lined	2.3	Enclosed	R0.0	Tiles
FR5 - 150mm concrete slab Lined	3.7	Enclosed	R0.0	Tiles
FR5 - 150mm concrete slab Lined	9.8	Enclosed	R0.0	Tiles
FR5 - 150mm concrete slab Lined	61.8	Enclosed	R0.0	Tiles
FR5 - 125mm concrete slab	6.3	Enclosed	R0.0	Tiles
FR5 - 125mm concrete slab	14.3	Enclosed	R0.0	Carpet
	FR5 - 150mm concrete slab Lined FR5 - 150mm concrete slab Lined FR5 - 150mm concrete slab Lined FR5 - 125mm concrete slab	FR5 - 150mm concrete slab Lined2.3FR5 - 150mm concrete slab Lined3.7FR5 - 150mm concrete slab Lined9.8FR5 - 150mm concrete slab Lined61.8FR5 - 125mm concrete slab6.3	FR5 - 150mm concrete slab Lined2.3EnclosedFR5 - 150mm concrete slab Lined3.7EnclosedFR5 - 150mm concrete slab Lined9.8EnclosedFR5 - 150mm concrete slab Lined61.8EnclosedFR5 - 125mm concrete slab6.3Enclosed	FR5 - 150mm concrete slab Lined2.3EnclosedR0.0FR5 - 150mm concrete slab Lined3.7EnclosedR0.0FR5 - 150mm concrete slab Lined9.8EnclosedR0.0FR5 - 150mm concrete slab Lined61.8EnclosedR0.0FR5 - 150mm concrete slab Lined61.8EnclosedR0.0FR5 - 125mm concrete slab6.3EnclosedR0.0

Ceiling type			
Location	Material	Added insulation	Roof space above
Bedroom 3	Plasterboard	R3.0	No
Bedroom 1	Plasterboard	R3.0	No
ensuite	Plasterboard	R3.0	No
laundry	Plasterboard	R3.0	No

Certificate Number: NQ2EQSHOY1

Date of Certificate: 6 Jun 2019

★ Star rating: 6.1



Building Features

bath	Plasterboard	·	3.0	No
entry	Plasterboard	R3.0	No No No	
Kitchen/Living	Plasterboard	R3.0		
Ensuite	Plasterboard	R3.0		
Bedroom 2	Plasterboard	I	R3.0	No
Location	Number Type	Width (mm)	Length (mm)	Seal/ unsealed
Ceiling fans				
Location	Number Diameter (mm)			
Roof type				
				lation Poof cold

Material	Added insulation	Roof colour
Slab:Slab - Suspended Slab : 150mm: 150mm Suspended Slab	0.0	medium
Slab:Slab - Suspended Slab : 125mm: 125mm Suspended Slab	0.0	medium

Certificate Number: NQ2EQSHOY1

Date of Certificate: 6 Jun 2019

★ Star rating: 6.1



Additional information

Explanatory notes

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Certificate Number: OGYYM4AWRW

Date of Certificate: 6 Jun 2019

★ Star rating: 6.6



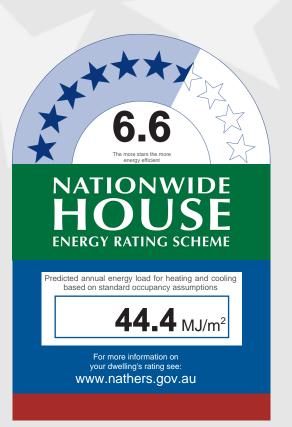
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	502, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Type:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	open		



Key construction and insulation materials (see following pages for details)

90

3.7

93.7

Net floor area (m²)

Conditioned:

Garage:

TOTAL:

Unconditioned:

Plan documents

Plan ref/date:

Prepared by:

Construction:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Insulation:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Glazing:	As indicated
	As indicated

Ceiling penetrations

(see following pages for details)

-	
Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

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https://www.fr5.com.au/QRCodeLand ing?PublicId=OGYYM4AWRW

Annual thermal

 (MJ/m^2)

Heating:

Cooling:

TOTAL:

Wolski Coppin Architecture

Project No. 21813

performance loads

28.8

15.6

44.4

Certificate Number: OGYYM4AWRW

Date of Certificate: 6 Jun 2019

★ Star rating: 6.6



Building Features

Windows type and performance value						
Window ID	Window type	U-value	SHGC			
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7			

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	bed 1	2100	2400	WNW	Bedroom 1	No
ALM-002-01 A	bed 2	2100	1600	SSW	Bedroom 2	No
ALM-002-01 A	study	2100	900	SSW	study	No
ALM-002-01 A	balcony	2100	3000	WNW	Kitchen/Living	No
ALM-002-01 A	living	2100	450	NNE	Kitchen/Living	No
ALM-002-01 A	dining	2100	2800	WNW	Kitchen/Living	No
ALM-002-01 A	Opening 27	2100	316	WNW	Kitchen/Living	No
ALM-002-01 A	Opening 28	2100	363	SSW	Kitchen/Living	No

Roof windo	ows and skylight type and performance value		
ID	Window type	U-value	SHGC
Roof windo	ow and skylight schedule		
ID	Roof window/ skylight no. Area (m ²) Orientation Zone name	Outdoor shade	Indoor shade/ diffuser
External w			
External wa	Insulation		Wall wrap

туре	Insulation	waii wrap
1 : AFS - AFS 162mm (75mm Glasswool)	Rockwool batt (k = 0.033) (R2.3)	No
2 : FR5 - Internal Plasterboard Stud Wall		No

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : AFS - AFS 162mm (75mm Glasswool)	9.8	NNE	Bedroom 1	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	7.3	WNW	Bedroom 1	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	6	SSW	Bedroom 2	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	8.6	ESE	Bedroom 2	No	Yes
2 : FR5 - Internal Plasterboard Stud Wall	0.7	NNE	Bedroom 2	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	5.8	SSW	study	No	No

Certificate Number: OGYYM4AWRW

Date of Certificate: 6 Jun 2019

★ Star rating: 6.6



Building Features

1 : AFS - AFS 162mm (75mm Glasswool)	7.3	ESE	study	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	4.7	NNE	ensuite	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.2	NNE	laundry	No	No
2 : FR5 - Internal Plasterboard Stud Wall	0.7	SSW	bath	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	4.5	ESE	bath	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	4.8	NNE	bath	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.7	ESE	entry	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	8.3	WNW	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	2.6	NNE	Kitchen/Living	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	8.2	WNW	Kitchen/Living	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	2	SSW	Kitchen/Living	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	1.3	WNW	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	12	SSW	Kitchen/Living	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	77.8	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	FR5 - 150mm concrete slab Lined	13.6	Enclosed	R0.0	Carpet
Bedroom 2	FR5 - 150mm concrete slab Lined	10.5	Enclosed	R0.0	Carpet
study	FR5 - 150mm concrete slab Lined	10.3	Enclosed	R0.0	Carpet
ensuite	FR5 - 150mm concrete slab Lined	3.8	Enclosed	R0.0	Tiles
laundry	FR5 - 150mm concrete slab Lined	2.5	Enclosed	R0.0	Tiles
bath	FR5 - 150mm concrete slab Lined	3.7	Enclosed	R0.0	Tiles
entry	FR5 - 150mm concrete slab Lined	7.6	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 150mm concrete slab Lined	41.7	Enclosed	R0.0	Tiles

Ceiling type				
Location	Material		Added insulation	Roof space above
Ceiling penetratio	ns			
Location	Number Type	Width (mm)	Length (mm)	Seal/ unsealed

Certificate Number: OGYYM4AWRW

Date of Certificate: 6 Jun 2019

★ Star rating: 6.6



Building Features

Ceiling fans			
Location	Number Diameter (mm)		
Roof type			
Material		Added insulation	Roof colour
Slab:Slab - Sus	spended Slab : 150mm: 150mm Suspended Slab	0.0	medium

Certificate Number: OGYYM4AWRW

Date of Certificate: 6 Jun 2019

★ Star rating: 6.6



Additional information

Explanatory notes

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Certificate Number: PEOL931SYU

Date of Certificate: 6 Jun 2019

★ Star rating: 6.3



Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	107, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Туре:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		

<image><section-header><section-header><text><text><text><text>

Key construction and insulation materials

(see following pages for details)

Net floor area (m²)

Conditioned:

Garage:

TOTAL:

Unconditioned:

Plan documents

Plan ref/date:

Prepared by:

Construction:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Insulation:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Glazing:	As inc	licated
	As inc	licated

72.5

4.1

76.6

Ceiling penetrations

(see following pages for details)

-	
Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

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dwelling will need to be rerated to confirm compliance.

Scan to access this certificate online and confirm this is valid.



Annual thermal

 (MJ/m^2)

Heating:

Cooling:

TOTAL:

Wolski Coppin Architecture

Project No. 21813

performance loads

30.3

17.3

47.6

Certificate Number: PEOL931SYU

Date of Certificate: 6 Jun 2019

★ Star rating: 6.3



Building Features

Windows type and performance value					
Window ID	Window type	U-value	SHGC		
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7		

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	21.12SD	2100	1200	ESE	Bedroom 1	No
ALM-002-01 A	Opening 9	1500	3000	ESE	Bedroom 2	No
ALM-002-01 A	21.36SD	2100	3600	ESE	Kitchen/Living	No
ALM-002-01 A	Opening 10	1500	1200	NNE	Kitchen/Living	No

Roof windows and	d skylight type and perf	ormance v	alue			
ID	Window type				U-value	SHGC
Roof window and	skylight schedule					
ID	Roof window/ skylight no.	Area (m²)	Orientation	Zone name		Indoor shade/ diffuser

External wall type

Туре	Insulation	Wall wrap
1 : AFS - AFS 200mm (75mm Glasswool)	Rockwool batt (k = 0.033) (R2.3)	No

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : AFS - AFS 200mm (75mm Glasswool)	1.7	SSW	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	5.7	SSW	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	7.6	ESE	Bedroom 1	Yes	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	0.4	WNW	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	8.7	WNW	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	7.6	ESE	Bedroom 2	No	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	2.1	NNE	Bedroom 2	Yes	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	5.9	SSW	Bedroom 2	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	5.4	WNW	Ensuite	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.3	SSW	Ensuite	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3	SSW	Kitchen/Living	No	No

Certificate Number: PEOL931SYU

Date of Certificate: 6 Jun 2019

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Building Features

1 : AFS - AFS 200mm (75mm Glasswool)	10	ESE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	18.9	NNE	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	1.2	WNW	Bathroom	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.8	NNE	Bathroom	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.6	WNW	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	10.9	SSW	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.4	WNW	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.8	SSW	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	2.4	NNE	Entry	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	5.6	WNW	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.1	NNE	Entry	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	49.5	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	FR5 - 125mm concrete slab	13.6	Enclosed	R0.0	Tiles
Bedroom 2	FR5 - 125mm concrete slab	11.2	Enclosed	R0.0	Tiles
Ensuite	FR5 - 125mm concrete slab	3.1	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 125mm concrete slab	34.5	Enclosed	R0.0	Tiles
Bathroom	FR5 - 125mm concrete slab	4.1	Enclosed	R0.0	Tiles
Entry	FR5 - 125mm concrete slab	10.1	Enclosed	R0.0	Tiles

Ceiling type			
Location	Material	Added insulation	Roof space above
Ceiling penetratio	ns		
Location	Number Type Width	n (mm) Length (mm)	Seal/ unsealed
Ceiling fans			
Location	Number Diameter (mm)		

Certificate Number: PEOL931SYU

Date of Certificate: 6 Jun 2019

★ Star rating: 6.3



Building Features

Roof type		
Material	Added insulation	Roof colour
Slab:Slab - Suspended Slab : 125mm: 125mm Suspended Slab	0.0	medium

Certificate Number: PEOL931SYU

Date of Certificate: 6 Jun 2019

★ Star rating: 6.3



Additional information

Explanatory notes

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Contact

For more information on the Nationwide House Energy Rating Scheme (NatHERS), visit www.nathers.gov.au For more information on energy efficient design and insulation visit www.yourhome.gov.au

Certificate Number: Q7AT0WRPAC

Date of Certificate: 6 Jun 2019

★ Star rating: 5.5



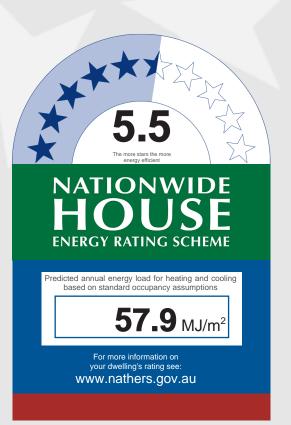
Assessor details

Accreditation number:	VIC/BDAV/14/1658
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Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

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State:	NSW	Postcode:	2095
Туре:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		



Key construction and insulation materials

(see following pages for details)

Construction:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Insulation:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Glazing:	As indicated
	As indicated

Ceiling penetrations

(see following pages for details)

-	
Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Net floor area (m ²)		Annual thermal	
Conditioned: Unconditioned:	72.6 3.5	performance (MJ/m ²)) loads
Garage: TOTAL:	76.1	Heating: Cooling: TOTAL:	34 2 57

Plan documents

Plan ref/date: Project No. 21813 Prepared by: Wolski Coppin Architecture

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

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34.9

57.9

23

Certificate Number: Q7AT0WRPAC

Date of Certificate: 6 Jun 2019

★ Star rating: 5.5



Building Features

Windows type and	Windows type and performance value			
Window ID	Window type	U-value	SHGC	
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7	

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	21.135SW	2100	1350	SSW	Bedroom 1	No
ALM-002-01 A	21.045FW	2100	450	WNW	Bedroom 1	No
ALM-002-01 A	21.095SW	2100	950	SSW	Bedroom 2	No
ALM-002-01 A	21.045FW	2100	450	WNW	Bedroom 2	No
ALM-002-01 A	Opening 13	1500	2100	SSW	Kitchen/Living	No
ALM-002-01 A	Opening 14	1500	1300	SSW	Kitchen/Living	No
ALM-002-01 A	21.45SD	2100	4500	ESE	Kitchen/Living	No

Roof window	ws and skylight type and performance value	
ID	Window type	U-value SHGC
Roof window	w and skylight schedule	
ID	Roof window/ skylight no. Area (m ²) Orientation Zone nam	e Outdoor Indoor shade/ shade diffuser

External wall type						
Туре	Insulation Rockwool batt (k = 0.033) (R2.3)				Wall wrap	
1 : AFS - AFS 200mm (75mm Glasswool)				No		
External wall schedule						
Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves	
1 : AFS - AFS 200mm (75mm Glasswool)	4	WNW	Entry	No	Yes	
1 : AFS - AFS 200mm (75mm Glasswool)	10.7	NNE	Entry	No	No	
1 : AFS - AFS 200mm (75mm Glasswool)	3.4	WNW	Ensuite	No	Yes	
1 : AFS - AFS 200mm (75mm Glasswool)	0.7	NNE	Ensuite	No	No	
1 : AFS - AFS 200mm (75mm Glasswool)	3.5	SSW	Bedroom 1	Yes	No	
1 : AFS - AFS 200mm (75mm Glasswool)	11	WNW	Bedroom 1	No	Yes	
1 : AFS - AFS 200mm (75mm Glasswool)	7	SSW	Bedroom 2	No	Yes	
1 : AFS - AFS 200mm (75mm Glasswool)	6.9	WNW	Bedroom 2	Yes	No	

Certificate Number: Q7AT0WRPAC

Date of Certificate: 6 Jun 2019

★ Star rating: 5.5



Building Features

1 : AFS - AFS 200mm (75mm Glasswool)	3.7	NNE	Bathroom	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	5.5	ESE	Bathroom	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.3	NNE	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	9.5	SSW	Kitchen/Living	No	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	10.9	ESE	Kitchen/Living	No	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	2.1	NNE	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	9	ESE	Kitchen/Living	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	57.9	

Floors Area (m²) Sub floor ventilation Added insulation Covering Location Construction Entry FR5 - 125mm concrete slab 7.5 Enclosed R0.0 Tiles Ensuite FR5 - 125mm concrete slab 3.5 Enclosed R0.0 Tiles Bedroom 1 FR5 - 125mm concrete slab 14.3 Enclosed R0.0 Tiles Bedroom 2 FR5 - 125mm concrete slab 10.6 Enclosed R0.0 Tiles **Bathroom** FR5 - 125mm concrete slab 3.5 Enclosed R0.0 Tiles Kitchen/Living FR5 - 125mm concrete slab 36.7 Enclosed R0.0 Tiles

Ceiling type						
Location	Material	Material		Added insulation	Roof space above	
Ceiling pene	trations					
Location	Number T	уре	Width (mm)	Length (mm)	Seal/ unsealed	
Ceiling fans						
Location	Number D	Diameter (mm)				
Roof type						
Material			Added insu	lation Roof colour		
Slab:Slab - Suspended Slab : 125mm: 125mm Suspended Slab				0.0	medium	

Certificate Number: Q7AT0WRPAC

Date of Certificate: 6 Jun 2019

★ Star rating: 5.5



Additional information

Explanatory notes

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Contact

Certificate Number: R5RY8MPGRX

Date of Certificate: 6 Jun 2019

★ Star rating: 5.8



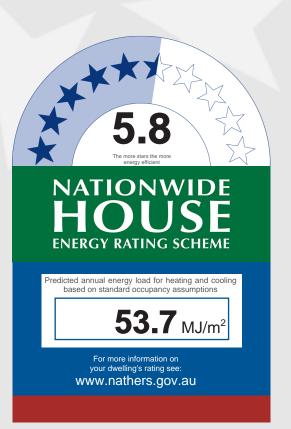
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Туре:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		



Key	construction	and	insulation	materials
1000	following pages fo	r datai		

(see following pages for details)

Construction:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Insulation:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Glazing:	As inc	licated
	As inc	dicated

Ceiling penetrations

(see following pages for details)

Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Net floor area ((m²)		A
Conditioned: Unconditioned: Garage:	49.7 3.8 -		р (I
TOTAL:	53.5	-	T

Annual therm performance (MJ/m ²)	
Heating:	33.2
Cooling:	20.5
TOTAL:	53.7

Plan documents

Plan ref/date: Project No. 21813 Prepared by: Wolski Coppin Architecture

Window selection default windows only

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Certificate Number: R5RY8MPGRX

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Building Features

Windows type an	d performance value		
Window ID	Window type	U-value	SHGC
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	bed 1	2100	2100	WNW	Bedroom 1	No
ALM-002-01 A	living	2100	2000	WNW	Kitchen/Living	No
ALM-002-01 A	living	2100	3200	NNE	Kitchen/Living	No

Roof windows ar	nd skylight type and perf	ormance v	alue			
ID	Window type				U-value	SHGC
Roof window and	d skylight schedule					
ID	Roof window/ skylight no.	Area (m²)	Orientation	Zone name		Indoor shade/ diffuser

External wall type		
Туре	Insulation	Wall wrap
1 : AFS - AFS 200mm (75mm Glasswool)	Rockwool batt (k = 0.033) (R2.3)	No

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : AFS - AFS 200mm (75mm Glasswool)	5.7	WNW	Bedroom 1	Yes	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	9.4	NNE	Bedroom 1	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	5.8	NNE	bath	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.6	SSW	Study	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.4	ESE	Study	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	6.5	NNE	Study	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	9.5	SSW	entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.8	ESE	entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	9	WNW	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	19.6	SSW	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	7.2	ESE	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	0.8	SSW	Kitchen/Living	No	No

Certificate Number: R5RY8MPGRX

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Building Features

1 : AFS - AFS 200mm (75mm Glasswool) Internal wall type	8.3	NNE	Kitchen/Living	Yes	Yes
Type 1 : FR5 - Internal Plasterboard Stud Wall	Area (m ² 38.3	²) Insula	tion		

Floors						
Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering	
Bedroom 1	FR5 - 150mm concrete slab	11.3	Enclosed	R0.0	Carpet	
bath	FR5 - 150mm concrete slab	3.8	Enclosed	R0.0	Tiles	
Study	FR5 - 150mm concrete slab	4.3	Enclosed	R0.0	Tiles	
entry	FR5 - 150mm concrete slab	5.7	Enclosed	R0.0	Tiles	
Kitchen/Living	FR5 - 150mm concrete slab	28.4	Enclosed	R0.0	Tiles	

Ceiling type					
Location	Material			Added insulation	Roof space above
Ceiling pene	trations				
Location	Number	Туре	Width (mm)	Length (mm)	Seal/ unsealed
Ceiling fans					
Location	Number	Diameter (mm)			
Roof type					
Material				Added insu	lation Roof colour
Slab:Slab - Su	spended Slab : 1	50mm: 150mm Suspended Slab		0.0	medium

Certificate Number: R5RY8MPGRX

Date of Certificate: 6 Jun 2019

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Disclaimer

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Contact

Certificate Number: S3Y6YQA67W

Date of Certificate: 6 Jun 2019

★ Star rating: 6.2



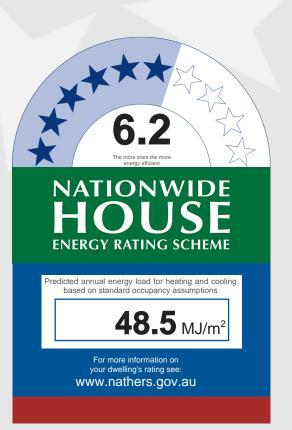
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	402, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Туре:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		



Key	construction	and	insulation	materials
(soo f	following nages for	r dotai	le)	

(see following pages for details)

Construction:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Insulation:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Glazing:	As inc	licated
	As inc	dicated

Ceiling penetrations

(see following pages for details)

Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Net floor area (m ²)		Annual ther	
Conditioned: Unconditioned:	77.8 1.3	(MJ/m ²)	
Garage:		Heating:	19
TOTAL:	79.1	Cooling:	28
		TOTAL:	48

Plan documents

Plan ref/date: Project No. 21813 Prepared by: Wolski Coppin Architecture

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

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https://www.fr5.com.au/QRCodeLand ing?PublicId=S3Y6YQA67W

19.9

28.6

48.5

Certificate Number: S3Y6YQA67W

Date of Certificate: 6 Jun 2019

★ Star rating: 6.2



Building Features

Windows type and performance value					
Window ID	Window type	U-value	SHGC		
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7		

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	Opening 41	2100	4500	WNW	Kitchen/Living	No
ALM-002-01 A	Opening 46	2100	1800	WNW	Bedroom 1	No
ALM-002-01 A	Opening 47	2100	1500	WNW	Bedroom 2	No

Roof window	vs and skylight type and performance value	
ID	Window type	U-value SHGC
	v and skylight schedule	
ID	Roof window/ skylight no. Area (m ²) Orientation Zone name	Outdoor Indoor shade/ shade diffuser

External wall type						
Туре	Insulation	Wall wrap				
1 : AFS - AFS 162mm (75mm Glasswool)	Rockwool batt (k = 0.033) (R2.3)	No				

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : AFS - AFS 162mm (75mm Glasswool)	14.5	WNW	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	13.3	SSW	Kitchen/Living	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	7.2	ESE	Kitchen/Living	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	17	NNE	Kitchen/Living	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	4.9	SSW	WC	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	7.5	SSW	Entry Laundry	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	2.4	ESE	Entry Laundry	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	1.1	NNE	Entry Laundry	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	4.6	ESE	Entry Laundry	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	8.2	NNE	Entry Laundry	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	2.9	WNW	Bedroom 1	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	1.8	NNE	Bedroom 1	Yes	No

Certificate Number: S3Y6YQA67W

Date of Certificate: 6 Jun 2019

★ Star rating: 6.2



Building Features

1 : AFS - AFS 162mm (75mm Glasswool)	6.9	WNW	Bedroom 1	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	9.8	SSW	Bedroom 1	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	6.2	NNE	Bedroom 1	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	6.2	SSW	Ensuite	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	4.4	WNW	Bedroom 2	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	7.1	ESE	Bedroom 2	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	12.1	NNE	Bedroom 2	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	8.4	SSW	Day 7	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	5.1	NNE	Day 7	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	4	SSW	Day 8	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	7	ESE	Day 8	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	4	NNE	Day 8	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	54.8	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Kitchen/Living	FR5 - 125mm concrete slab	30.2	Enclosed	R0.0	Tiles
WC	FR5 - 125mm concrete slab	1.3	Enclosed	R0.0	Tiles
Entry Laundry	FR5 - 125mm concrete slab	9.8	Enclosed	R0.0	Tiles
Bedroom 1	FR5 - 125mm concrete slab	12	Enclosed	R0.0	Carpet
Bedroom 1	FR5 - 125mm concrete slab	3	Elevated	R0.0	Tiles
Ensuite	FR5 - 125mm concrete slab	3.4	Enclosed	R0.0	Tiles
Bedroom 2	FR5 - 125mm concrete slab	10.9	Enclosed	R0.0	Carpet
Day 7	FR5 - 125mm concrete slab	8.1	Enclosed	R0.0	Carpet
Day 8	FR5 - 125mm concrete slab	0.4	Elevated	R0.0	Tiles
Day 8	FR5 - 125mm concrete slab	3.4	Enclosed	R0.0	Tiles

Ceiling type

Location	Material	Added insulation	Roof space above
Kitchen/Living	FR5 - 125mm concrete slab	R0.0	No
Kitchen/Living	FR5 - 125mm concrete slab	R0.0	No

Certificate Number: S3Y6YQA67W

Date of Certificate: 6 Jun 2019

★ Star rating: 6.2



Building Features

Kitchen/Living	FR5 - 125mm concrete slabR0.0			No	
Kitchen/Living	Plasterboard		R0.0	No	
WC	FR5 - 125mm concrete slab		R0.0	No	
Entry Laundry	FR5 - 125mm concrete slab		R0.0	No	
Entry Laundry	FR5 - 125mm concrete slab R0.0			No	
Ceiling penetra	tions				
Location	Number Type	Width (mm)	Length (mm)	Sea	l/ unsealed
Ceiling fans					
Location	Number Diameter (mm)				
Roof type					
Material			Added insu	lation	Roof colou
Slab:Slab - Suspended Slab : 125mm: 125mm Suspended Slab			0.0		

Certificate Number: S3Y6YQA67W

Date of Certificate: 6 Jun 2019

★ Star rating: 6.2



Additional information

Explanatory notes

About this report

Residential energy ratings address the quality of the building fabric i.e. walls, windows, floors and roof/ceilings. Ratings do not cover the energy or water efficiency of appliances including heating and cooling, hot water, dishwashers, ovens, fridges, TVs etc. or solar panel or water tank requirements. The efficiency or specification of these items is generally covered by other regulations, standards or guidelines.

General Information

A NatHERS House Energy Rating is a comprehensive, dynamic computer modelling evaluation of the floorplans, elevations and specifications to predict an energy load of a home. Not all of us use our homes in the same way, so ratings are generated using standard assumptions. This means homes can be compared across the country.

The actual energy consumption of your home may vary significantly from the predicted energy load figures in this report depending on issues such as the size of your household and your personal preferences, e.g. in terms of heating or cooling.

While the figures are an indicative guide to energy use, they can be used as a reliable guide for comparative purposes between different house designs and for demonstrating that the design meets the required regulatory compliance.

Homes that are energy efficient use less energy, are warmer in winter, cooler in summer and cost less to run. The higher the star rating the more energy efficient.

This NatHERS House Energy Rating report was carefully prepared by your assessor on the basis of comprehensive modelling using standard procedures to rate your home using an underlying engine developed by the Australian Commonwealth Scientific and Industrial Research Organisation (CSIRO).

All information relating to energy loads presented in this report is based on a range of standard assumptions in order to allow for comparisons with reports prepared for other homes and to demonstrate minimum regulatory compliance. The standard assumptions include figures for occupancy, indoor air temperature and are based on a unique climate file for your region.

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Contact

Certificate Number: TQ57SCWA33

Date of Certificate: 6 Jun 2019

★ Star rating: 7.3



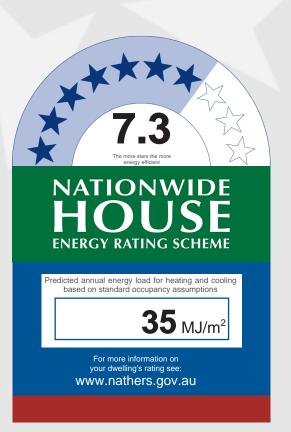
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	302, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Type:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		



Key	cons	tructi	on ar	nd in:	sulation	materia	s
(see f	ollowin	g pages	s for de	etails)			

81.4

84.9

3.5

Construction:	Wall: As	indicated
	Roof: As	indicated
	Floor: As	indicated
Insulation:	Wall: As	indicated
	Roof: As	indicated
	Floor: As	indicated
Glazing:	As indica	ted
	As indica	ted

Net floor area (m²)

Conditioned:

Garage:

TOTAL:

Unconditioned:

Plan documents

Plan ref/date:

Prepared by:

Ceiling penetrations (see following pages for

details)

Sealed:	0
Unsealed:	0
TOTAL:**	0

number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

**NOTE: This total is the maximum

Principal downlight type:

Compact fluorescent

Window selection - default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

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https://www.fr5.com.au/QRCodeLand ing?PublicId=TQ57SCWA33

Annual thermal

 (MJ/m^2)

Heating:

Cooling:

TOTAL:

Wolski Coppin Architecture

Project No. 21813

performance loads

16.6

18.4

35

Certificate Number: TQ57SCWA33

Date of Certificate: 6 Jun 2019

★ Star rating: 7.3



Building Features

Windows type and performance value					
Window ID	Window type	U-value	SHGC		
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7		

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	Opening 33	2100	4220	WNW	Kitchen/Living 4	No
ALM-002-01 A	Opening 30	2100	775	WNW	Bedroom 2	No
ALM-002-01 A	Opening 31	2100	1500	SSW	Bedroom 2	No
ALM-002-01 A	Opening 32	2100	1500	WNW	Bedroom 1	No

Roof windows and skylight type and performance value							
ID	Window type				U-value	SHGC	
Roof window and skylight schedule							
ID	Roof window/ skylight no.	Area (m ²)	Orientation	Zone name		Indoor shade/ diffuser	

External wall type

Туре	Insulation	Wall wrap
1 : AFS - AFS 162mm (75mm Glasswool)	Rockwool batt (k = 0.033) (R2.3)	No

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : AFS - AFS 162mm (75mm Glasswool)	4.7	SSW	Day 1	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	4	SSW	Day 2	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	2.9	ESE	Day 2	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	0.6	NNE	Day 2	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	0.5	ESE	Day 3	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	0.6	NNE	Day 3	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	5.8	ESE	Day 3	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	10.4	NNE	Day 3	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	13.3	WNW	Kitchen/Living 4	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	5.6	SSW	Kitchen/Living 4	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	12.2	SSW	Kitchen/Living 4	No	No

Certificate Number: TQ57SCWA33

Date of Certificate: 6 Jun 2019

★ Star rating: 7.3



Building Features

1 : AFS - AFS 162mm (75mm Glasswool)	3.8	ESE	Kitchen/Living 4	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	15.8	NNE	Kitchen/Living 4	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	8.3	WNW	Bedroom 2	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	4.8	SSW	Bedroom 2	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	12.7	NNE	Bedroom 2	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	4.6	WNW	Bedroom 1	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	15.3	SSW	Bedroom 1	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.6	ESE	Bedroom 1	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	2.6	SSW	Bedroom 1	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	6.3	SSW	Ensuite	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	4.5	ESE	Ensuite	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	4.8	ESE	Upstairs Bath	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	5.2	NNE	Upstairs Bath	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	10.9	NNE	Upstairs	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	64	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Day 1	FR5 - 125mm concrete slab	2.5	Enclosed	R0.0	Tiles
Day 2	FR5 - 125mm concrete slab	1.6	Enclosed	R0.0	Tiles
Day 3	FR5 - 125mm concrete slab	7.9	Enclosed	R0.0	Tiles
Kitchen/Living 4	FR5 - 125mm concrete slab	1.4	Enclosed	R0.0	Tiles
Kitchen/Living 4	FR5 - 125mm concrete slab	29.5	Enclosed	R0.0	Tiles
Bedroom 2	FR5 - 125mm concrete slab	10.1	Enclosed	R0.0	Carpet
Bedroom 2	FR5 - 125mm concrete slab	2.2	Elevated	R0.0	Carpet
Bedroom 1	FR5 - 125mm concrete slab	16.9	Enclosed	R0.0	Carpet
Ensuite	FR5 - 125mm concrete slab	3.9	Enclosed	R0.0	Tiles
Upstairs Bath	FR5 - 125mm concrete slab	3.5	Enclosed	R0.0	Tiles
Upstairs	FR5 - 125mm concrete slab	7.1	Enclosed	R0.0	Tiles

Ceiling type

Certificate Number: TQ57SCWA33

Date of Certificate: 6 Jun 2019

★ Star rating: 7.3



Building Features

Location	Material			Added insulation	Roof space above	
Day 1	FR5 - 12	FR5 - 125mm concrete slab			No	
Day 1	FR5 - 12	25mm concrete slab		R0.0	No	
Day 2	FR5 - 12	25mm concrete slab		R0.0	No	
Day 3	FR5 - 12	25mm concrete slab		R0.0	No	
Day 3	FR5 - 12	25mm concrete slab		R0.0	No	
Day 3	FR5 - 12	25mm concrete slab		R0.0	No	
Day 3	FR5 - 12	25mm concrete slab		R0.0	No	
Kitchen/Living 4	Plasterb	Plasterboard			No	
Kitchen/Living 4	FR5 - 12	FR5 - 125mm concrete slab			No	
Kitchen/Living 4	FR5 - 12	25mm concrete slab		R0.0	No	
Kitchen/Living 4	FR5 - 12	25mm concrete slab		R0.0	No	
Ceiling penetrat	ions					
Location	Number	Туре	Width (mm)	Length (mm)	Seal/ unsealed	
Ceiling fans						
Location	Number	Diameter (mm)				
Roof type						
Material				Added ins	ulation Roof colou	
Slab:Slab - Susper	nded Slab : 1	25mm: 125mm Suspended Slab		0.0	medium	

Certificate Number: TQ57SCWA33

Date of Certificate: 6 Jun 2019

★ Star rating: 7.3



Additional information

Explanatory notes

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Contact

Certificate Number: TVF7GJYSWT

Date of Certificate: 6 Jun 2019

★ Star rating: 7.3



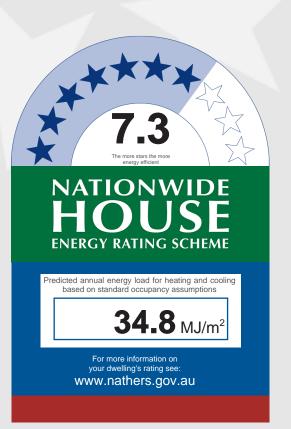
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	203, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Туре:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		



Key	construction	and	insulation	materials
(000)	following pages for	r dotai	le)	

(see following pages for details)

Construction:	Wall: As indicated	
	Roof: As indicated	
	Floor: As indicated	
Insulation:	Wall: As indicated	
	Roof: As indicated	
	Floor: As indicated	
Glazing:	As indicated	
	As indicated	

Ceiling penetrations

(see following pages for details)

-	
Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Net floor area (m²)	A
Conditioned: Unconditioned: Garage: TOTAL:	75.4 3.8 - 79.2	Pe (M He Co TC

Annual therm performance (MJ/m ²)	
Heating:	11.6
Cooling:	23.2
TOTAL:	34.8

Plan documents

Plan ref/date: Project No. 21813 Prepared by: Wolski Coppin Architecture

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

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Certificate Number: TVF7GJYSWT

Date of Certificate: 6 Jun 2019

★ Star rating: 7.3



Building Features

Windows type and performance value				
Window ID	Window type	U-value	SHGC	
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7	

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	bed 1	2100	1400	WNW	Bedroom 1	No
ALM-002-01 A	bed 2	2100	2900	WNW	Bedroom 2	No
ALM-002-01 A	living	2100	1880	WNW	Kitchen/Living	No
ALM-002-01 A	balcony	2100	2800	NNE	Kitchen/Living	No

Roof windows and	skylight type and performance value		
ID	Window type	U-value	SHGC
Roof window and	skylight schedule		
ID	Roof window/ skylight no. Area (m ²) Orientation Zone name		Indoor shade/ diffuser

External wall type

Туре	Insulation	Wall wrap
1 : AFS - AFS 162mm (75mm Glasswool)	Rockwool batt (k = 0.033) (R2.3)	No

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : AFS - AFS 162mm (75mm Glasswool)	3.6	WNW	Bedroom 1	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	1.1	NNE	Bedroom 1	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.5	WNW	Bedroom 1	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	2.3	ESE	Bedroom 1	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	8.7	NNE	Bedroom 1	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	7.2	WNW	Bedroom 2	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	4.5	ESE	ensuite	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	4.9	NNE	ensuite	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.4	NNE	bath	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	10.3	SSW	entry	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	4.5	ESE	entry	No	Yes

Certificate Number: TVF7GJYSWT

Date of Certificate: 6 Jun 2019

★ Star rating: 7.3



Building Features

1 : AFS - AFS 162mm (75mm Glasswool)	0.5	SSW	entry	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.1	ESE	entry	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	4.6	NNE	entry	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	2	ESE	hallway	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	9.5	WNW	Kitchen/Living	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	19.7	SSW	Kitchen/Living	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	7.2	ESE	Kitchen/Living	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	7.6	NNE	Kitchen/Living	Yes	Yes

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	61.9	

Floors

Bedroom 1FR5 - 150mm concrete slab13.5EnclosedR0.0Bedroom 2FR5 - 150mm concrete slab12.2EnclosedR0.0ensuiteFR5 - 150mm concrete slab3.8EnclosedR0.0bathFR5 - 150mm concrete slab3.8EnclosedR0.0entryFR5 - 150mm concrete slab9.4EnclosedR0.0hallwayFR5 - 150mm concrete slab3.8EnclosedR0.0Kitchen/LivingFR5 - 150mm concrete slab32.6EnclosedR0.0	ion	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
ensuiteFR5 - 150mm concrete slab3.8EnclosedR0.0bathFR5 - 150mm concrete slab3.8EnclosedR0.0entryFR5 - 150mm concrete slab9.4EnclosedR0.0hallwayFR5 - 150mm concrete slab3.8EnclosedR0.0	oom 1	FR5 - 150mm concrete slab	13.5	Enclosed	R0.0	Carpet
bathFR5 - 150mm concrete slab3.8EnclosedR0.0entryFR5 - 150mm concrete slab9.4EnclosedR0.0hallwayFR5 - 150mm concrete slab3.8EnclosedR0.0	oom 2	FR5 - 150mm concrete slab	12.2	Enclosed	R0.0	Carpet
entryFR5 - 150mm concrete slab9.4EnclosedR0.0hallwayFR5 - 150mm concrete slab3.8EnclosedR0.0	te	FR5 - 150mm concrete slab	3.8	Enclosed	R0.0	Tiles
hallwayFR5 - 150mm concrete slab3.8EnclosedR0.0		FR5 - 150mm concrete slab	3.8	Enclosed	R0.0	Tiles
		FR5 - 150mm concrete slab	9.4	Enclosed	R0.0	Tiles
Kitchen/Living ER5 - 150mm concrete slab 32.6 Enclosed R0.0	ay	FR5 - 150mm concrete slab	3.8	Enclosed	R0.0	Tiles
	en/Living	FR5 - 150mm concrete slab	32.6	Enclosed	R0.0	Tiles

Ceiling type

Material	ł	Added insulation	Roof space above
ions			
Number Type	Width (mm)	Length (mm)	Seal/ unsealed
Number Diameter (mm)			
j	ions Number Type	ions Number Type Width (mm)	ions Number Type Width (mm) Length (mm)

Roof type

Certificate Number: TVF7GJYSWT

Date of Certificate: 6 Jun 2019

★ Star rating: 7.3



Building Features

Material	Added insulation	Roof colour
Slab:Slab - Suspended Slab : 150mm: 150mm Suspended Slab	0.0	medium

Certificate Number: TVF7GJYSWT

Date of Certificate: 6 Jun 2019

★ Star rating: 7.3



Additional information

Explanatory notes

About this report

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General Information

A NatHERS House Energy Rating is a comprehensive, dynamic computer modelling evaluation of the floorplans, elevations and specifications to predict an energy load of a home. Not all of us use our homes in the same way, so ratings are generated using standard assumptions. This means homes can be compared across the country.

The actual energy consumption of your home may vary significantly from the predicted energy load figures in this report depending on issues such as the size of your household and your personal preferences, e.g. in terms of heating or cooling.

While the figures are an indicative guide to energy use, they can be used as a reliable guide for comparative purposes between different house designs and for demonstrating that the design meets the required regulatory compliance.

Homes that are energy efficient use less energy, are warmer in winter, cooler in summer and cost less to run. The higher the star rating the more energy efficient.

This NatHERS House Energy Rating report was carefully prepared by your assessor on the basis of comprehensive modelling using standard procedures to rate your home using an underlying engine developed by the Australian Commonwealth Scientific and Industrial Research Organisation (CSIRO).

All information relating to energy loads presented in this report is based on a range of standard assumptions in order to allow for comparisons with reports prepared for other homes and to demonstrate minimum regulatory compliance. The standard assumptions include figures for occupancy, indoor air temperature and are based on a unique climate file for your region.

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Disclaimer

The energy values quoted are for comparison purposes only; they are not a prediction of actual energy use. This rating only applies to the floor plan, construction details, orientation and climate as submitted and included in the attached drawing set that bears a stamp with the same number as this certificate. Changes to any of these details could affect the rating.

Contact

Certificate Number: V2JL89NDSH

Date of Certificate: 6 Jun 2019

★ Star rating: 7.9



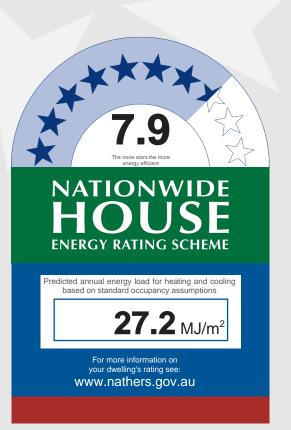
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	305, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Туре:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		



Key construction and insulation materials

(see following pages for details)

Construction:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Insulation:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Glazing:	As indicated
	As indicated

Ceiling penetrations

(see following pages for details)

-	
Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Net floor area (m²) Conditioned: 97 6.5 **Unconditioned:** Garage: TOTAL: 103.5

Annual thermal performance loads (MJ/m^2) 13.2 Heating: Cooling: 14 TOTAL: 27.2

Plan documents

Plan ref/date: Project No. 21813 Prepared by: Wolski Coppin Architecture

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

If any of the windows selected are outside the 5% tolerance then this certificate is no longer valid and the

dwelling will need to be rerated to confirm compliance.

Scan to access this certificate online and confirm this is valid.



https://www.fr5.com.au/QRCodeLand ing?PublicId=V2JL89NDSH

Certificate Number: V2JL89NDSH

Date of Certificate: 6 Jun 2019

★ Star rating: 7.9



Building Features

Windows type and performance value					
Window ID	Window type	U-value	SHGC		
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7		

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	bed 1 door	2100	920	NNE	Bedroom 1	No
ALM-002-01 A	bed 1	2100	1500	NNE	Bedroom 1	No
ALM-002-01 A	bed 2	2100	1300	ESE	Bedroom 2	No
ALM-002-01 A	bed 3	2100	800	ESE	Bedroom 3	No
ALM-002-01 A	living	2100	800	WNW	Kitchen/Living	No
ALM-002-01 A	lkitchen	2100	900	ESE	Kitchen/Living	No
ALM-002-01 A	balcony	2100	4000	NNE	Kitchen/Living	No
ALM-002-01 A	dining	2100	2100	NNE	Kitchen/Living	No

ID	Window type				U-value	SHGC
					0-value	01100
Roof windo	w and skylight schedule					
ID	Roof window/ skylight	no. Area (m ²	²) Orientation	on Zone name		Indoor shade diffuser
External wa	ll type					
Туре		Insulation				Wall wrap
1 : AFS - AFS	162mm (75mm Glasswool)	Rockwool I	batt (k = 0.03	3) (R2.3)		No
	II schedule	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
Wall type	II schedule	Area (m ²) 7.8	Orientation WNW	Zone name Bedroom 1	Fixed shade No	Eaves No
Wall type 1 : AFS - AFS						
Wall type 1 : AFS - AFS 1 : AFS - AFS	5 162mm (75mm Glasswool)	7.8	WNW	Bedroom 1	No	No
Wall type 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS	6 162mm (75mm Glasswool) 6 162mm (75mm Glasswool)	7.8 3.3	WNW NNE	Bedroom 1 Bedroom 1	No Yes	No Yes
Wall type 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS	5 162mm (75mm Glasswool) 5 162mm (75mm Glasswool) 5 162mm (75mm Glasswool)	7.8 3.3 4.7	WNW NNE NNE	Bedroom 1 Bedroom 1 Bedroom 1	No Yes Yes	No Yes Yes
1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS	5 162mm (75mm Glasswool) 5 162mm (75mm Glasswool) 5 162mm (75mm Glasswool) 5 162mm (75mm Glasswool)	7.8 3.3 4.7 8.9	WNW NNE NNE SSW	Bedroom 1 Bedroom 1 Bedroom 1 Bedroom 2	No Yes Yes No	No Yes Yes No

Certificate Number: V2JL89NDSH

Date of Certificate: 6 Jun 2019

★ Star rating: 7.9



Building Features

1 : AFS - AFS 162mm (75mm Glasswool)	1.5	NNE	Bedroom 3	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.1	ESE	Bedroom 3	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.3	SSW	ensuite 2	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	5.7	WNW	ensuite 1	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	0.6	SSW	ensuite 1	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	4.5	WNW	bath	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	4.4	SSW	bath	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	0.6	NNE	bath	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.2	SSW	laundry	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.7	WNW	entry	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	2.9	WNW	Kitchen/Living	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	1	NNE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	3.2	ESE	Kitchen/Living	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	0.9	NNE	Kitchen/Living	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	10.3	ESE	Kitchen/Living	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	16.4	NNE	Kitchen/Living	No	Yes

Internal wall type

Туре	Area (m ²)	Insulation
1 : AFS - AFS 162mm (75mm Glasswool)	5.2	Rockwool batt (k = 0.033) (R2.3)
2 : FR5 - Internal Plasterboard Stud Wall	92.8	

FI	001	S

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	FR5 - 150mm concrete slab	15.1	Enclosed	R0.0	Tiles
Bedroom 2	FR5 - 150mm concrete slab	12.9	Enclosed	R0.0	Tiles
Bedroom 3	FR5 - 150mm concrete slab	10.9	Enclosed	R0.0	Tiles
ensuite 2	FR5 - 150mm concrete slab	3.3	Enclosed	R0.0	Tiles
ensuite 1	FR5 - 150mm concrete slab	4.7	Enclosed	R0.0	Tiles
bath	FR5 - 150mm concrete slab	3.5	Enclosed	R0.0	Tiles
laundry	FR5 - 150mm concrete slab	3	Enclosed	R0.0	Tiles
entry	FR5 - 150mm concrete slab	4.5	Enclosed	R0.0	Tiles
hallway	FR5 - 150mm concrete slab	5.6	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 150mm concrete slab	40.1	Enclosed	R0.0	Tiles

Certificate Number: V2JL89NDSH

Date of Certificate: 6 Jun 2019

★ Star rating: 7.9



Building Features

Ceiling type					
Location	Material			Added insulation	Roof space above
Ceiling penetr	rations				
Location	Number	Туре	Width (mm)	Length (mm)	Seal/ unsealed
Ceiling fans					
Location	Number	Diameter (mm)			
Roof type					
Material				Added insu	Ilation Roof colour
Slab:Slab - Susp	pended Slab : 1	50mm: 150mm Suspended Slab)	0.0	medium

Certificate Number: V2JL89NDSH

Date of Certificate: 6 Jun 2019

★ Star rating: 7.9



Additional information

Explanatory notes

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Contact

Certificate Number: VGRKLUYD0Z

Date of Certificate: 6 Jun 2019

★ Star rating: 7.5



Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	201, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Туре:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		



	l	• -
		For more inform your dwelling's ra www.nathers

Key construction and insulation materials

(see following pages for details)

Net floor area (m²)

Conditioned:

Garage:

TOTAL:

Unconditioned:

Plan documents

Plan ref/date:

Prepared by:

Construction:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Insulation:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Glazing:	As indicated
	As indicated

79.9

83.7

3.8

Ceiling	penetrations
coo follo	ving pages for

(see following pages for details)

Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on

page 2. If any of the windows selected are outside the 5% tolerance then this certificate is no longer valid and the

dwelling will need to be rerated to confirm compliance.

Scan to access this certificate online and confirm this is valid.



https://www.fr5.com.au/QRCodeLand ing?PublicId=VGRKLUYD0Z

Annual thermal

 (MJ/m^2)

Heating:

Cooling:

TOTAL:

Wolski Coppin Architecture

Project No. 21813

performance loads

15.3

16.4

31.7

Certificate Number: VGRKLUYD0Z

Date of Certificate: 6 Jun 2019

★ Star rating: 7.5



Building Features

Windows type an	Windows type and performance value			
Window ID	Window type	U-value	SHGC	
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7	

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	Opening 12	2100	1919	NNE	Bedroom 1	No
ALM-002-01 A	21.22SD	2100	2711	WNW	Kitchen/Living	No
ALM-002-01 A	21.24sd	2100	2400	NNE	Kitchen/Living	No
ALM-002-01 A	Opening 9	2400	450	NNE	Kitchen/Living	No
ALM-002-01 A	24.19	2400	1900	WNW	Kitchen/Living	No
ALM-002-01 A	Opening 10	2400	450	SSW	Kitchen/Living	No

Roof windows and	d skylight type and performance value	
ID	Window type	U-value SHGC
Roof window and	skylight schedule	
ID	Roof window/ skylight no. Area (m ²) Orientation Zone name	Outdoor Indoor shade/ shade diffuser

Туре	Insulation				Wall wrap	
1 : AFS - AFS 162mm (75mm Glasswool)	Rockwool	Rockwool batt (k = 0.033) (R2.3)			No	
2 : Hebel - Hebel Partition Wall					No	
External wall schedule						
Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves	
1 : AFS - AFS 162mm (75mm Glasswool)	9.2	ESE	Bedroom 2	Yes	No	
1 : AFS - AFS 162mm (75mm Glasswool)	9.7	NNE	Bedroom 2	No	No	
1 : AFS - AFS 162mm (75mm Glasswool)	7.7	SSW	Entry	No	No	
1 : AFS - AFS 162mm (75mm Glasswool)	4	ESE	Entry	No	No	
2 : Hebel - Hebel Partition Wall	2.5	SSW	Entry	No	No	
2 : Hebel - Hebel Partition Wall	1.3	WNW	Entry	No	No	
1 : AFS - AFS 162mm (75mm Glasswool)	9.9	ESE	Bedroom 1	No	No	
1 : AFS - AFS 162mm (75mm Glasswool)	6.1	NNE	Bedroom 1	Yes	No	

Certificate Number: VGRKLUYD0Z

Date of Certificate: 6 Jun 2019

★ Star rating: 7.5



Building Features

2 : Hebel - Hebel Partition Wall	3.7	ESE	Ensuite	No	No
2 : Hebel - Hebel Partition Wall	0.6	SSW	Ensuite	No	No
2 : Hebel - Hebel Partition Wall	7.4	WNW	Bathroom	No	No
2 : Hebel - Hebel Partition Wall	3.8	SSW	Bathroom	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	7.6	SSW	Kitchen/Living	Yes	No
2 : Hebel - Hebel Partition Wall	11	SSW	Kitchen/Living	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	9.5	NNE	Kitchen/Living	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	8.5	WNW	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	8.1	NNE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	2.2	WNW	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	1.2	NNE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	5.6	WNW	Kitchen/Living	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	1.3	SSW	Kitchen/Living	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	2.4	WNW	Kitchen/Living	No	No

Internal wall type

Insulation	
m²)	

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 2	FR5 - 150mm concrete slab Lined	12.2	Enclosed	R0.0	Carpet
Entry	FR5 - 150mm concrete slab Lined	12	Enclosed	R0.0	Tiles
Bedroom 1	FR5 - 150mm concrete slab Lined	10.3	Enclosed	R0.0	Carpet
Ensuite	FR5 - 150mm concrete slab Lined	4.7	Enclosed	R0.0	Tiles
Bathroom	FR5 - 150mm concrete slab Lined	3.8	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 150mm concrete slab Lined	40.8	Enclosed	R0.0	Tiles

Ceiling type				
Location	Material		Added insulation	Roof space above
Ceiling penetratio	ns			
Location	Number Type	Width (mm)	Length (mm)	Seal/ unsealed

Certificate Number: VGRKLUYD0Z

Date of Certificate: 6 Jun 2019

★ Star rating: 7.5



Building Features

Ceiling fans		
Location Number Diameter (mm)		
Roof type		
Material	Added insulation	Roof colour
Slab:Slab - Suspended Slab : 150mm: 150mm Suspended Slab	0.0	medium

Certificate Number: VGRKLUYD0Z

Date of Certificate: 6 Jun 2019

★ Star rating: 7.5



Additional information

Explanatory notes

About this report

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Contact

Certificate Number: W27XLFKWM0

Date of Certificate: 6 Jun 2019

★ Star rating: 7.1



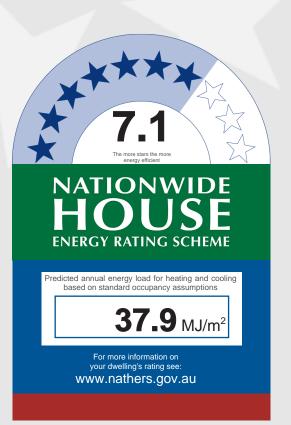
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	303, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Туре:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		



Key construction and insulation materials

67.5

71.4

3.9

(see following pages for details)

Net floor area (m²)

Conditioned:

Garage:

TOTAL:

Unconditioned:

Plan documents

Plan ref/date:

Prepared by:

Construction:	Wall: As ind	icated
	Roof: As ind	icated
	Floor: As ind	icated
Insulation:	Wall: As ind	icated
	Roof: As ind	icated
	Floor: As ind	icated
Glazing:	As indicated	
	As indicated	

Ceiling penetrations

(see following pages for details)

Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Window selection performance loads default windows only Note on allowable window values: Only a

18.5

19.4

37.9

5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

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dwelling will need to be rerated to confirm compliance.

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https://www.fr5.com.au/QRCodeLand ing?PublicId=W27XLFKWM0

Annual thermal

 (MJ/m^2)

Heating:

Cooling:

TOTAL:

Wolski Coppin Architecture

Project No. 21813

Certificate Number: W27XLFKWM0

Date of Certificate: 6 Jun 2019

★ Star rating: 7.1



Building Features

Windows type and performance value							
Window ID	Window type	U-value	SHGC				
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7				

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	bed 1	2100	1500	WNW	Bedroom 1	No
ALM-002-01 A	bed 2	2100	2850	WNW	Bedroom 2	No
ALM-002-01 A	bed 2	2100	2100	NNE	Bedroom 2	No
ALM-002-01 A	living	2100	2400	NNE	Kitchen/Living	No
ALM-002-01 A	living	2100	1941	WNW	Kitchen/Living	No

Roof windows an	d skylight type and perf	ormance v	alue			
ID	Window type				U-value	SHGC
Roof window and	skylight schedule					
ID	Roof window/ skylight no.	Area (m²)	Orientation	Zone name		Indoor shade/ diffuser

External wall type					
Туре	Insulation			Wall wrap	
1 : AFS - AFS 162mm (75mm Glasswool)	Rockwool batt (k = 0.033) (R2.3)			No	
External wall schedule					
Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : AFS - AFS 162mm (75mm Glasswool)	3.8	WNW	Bedroom 1	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	6.2	ESE	Bedroom 1	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	10.6	NNE	Bedroom 1	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	7.5	WNW	Bedroom 2	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	5.4	NNE	Bedroom 2	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	3.3	NNE	ensuite	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	0.6	SSW	bath	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	4.8	ESE	bath	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	4.7	NNE	bath	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.2	SSW	entry	No	No

Certificate Number: W27XLFKWM0

Date of Certificate: 6 Jun 2019

★ Star rating: 7.1



Building Features

1 : AFS - AFS 162mm (75mm Glasswool)	1.7	WNW	entry	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	5.9	SSW	entry	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	4	ESE	entry	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	1.2	SSW	Kitchen/Living	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	6.3	NNE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	9.4	WNW	Kitchen/Living	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	19.5	SSW	Kitchen/Living	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	7.1	ESE	Kitchen/Living	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	50.1	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	FR5 - 150mm concrete slab	12.9	Enclosed	R0.0	Carpet
Bedroom 2	FR5 - 150mm concrete slab	11.3	Enclosed	R0.0	Carpet
laundry	FR5 - 150mm concrete slab	1.8	Enclosed	R0.0	Tiles
ensuite	FR5 - 150mm concrete slab	3.5	Enclosed	R0.0	Tiles
bath	FR5 - 150mm concrete slab	3.9	Enclosed	R0.0	Tiles
entry	FR5 - 150mm concrete slab	5.8	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 150mm concrete slab	32.3	Enclosed	R0.0	Tiles

Ceiling type

ions			
Number Type	Width (mm)	Length (mm)	Seal/ unsealed
Number Diameter (mm)			
	Number Type	Number Type Width (mm)	Number Type Width (mm) Length (mm)

Roof type

Certificate Number: W27XLFKWM0

Date of Certificate: 6 Jun 2019

★ Star rating: 7.1



Building Features

Material	Added insulation	Roof colour
Slab:Slab - Suspended Slab : 150mm: 150mm Suspended Slab	0.0	medium

Certificate Number: W27XLFKWM0

Date of Certificate: 6 Jun 2019

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Additional information

Explanatory notes

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Contact

Certificate Number: WQGYD43H8J

Date of Certificate: 6 Jun 2019

★ Star rating: 7.9



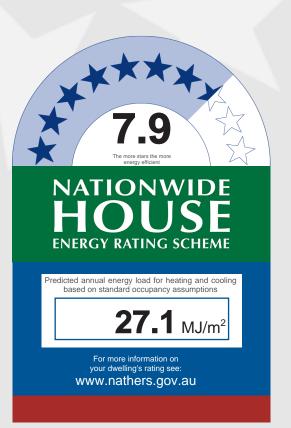
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	404, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Туре:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		



Key construction and insulation materials

(see following pages for details)

Construction:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Insulation:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Glazing:	As inc	licated
	As inc	licated

Ceiling penetrations

(see following pages for details)

-	
Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Net floor area (m²) **Annual thermal** performance loads 97 (MJ/m^2) 6.5 Heating: 103.5 Cooling:

TOTAL:

Plan documents

Conditioned:

Garage:

TOTAL:

Unconditioned:

Plan ref/date: Project No. 21813 Prepared by: Wolski Coppin Architecture

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

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13.8

13.3

27.1

Certificate Number: WQGYD43H8J

Date of Certificate: 6 Jun 2019

★ Star rating: 7.9



Building Features

Windows type and performance value					
Window ID	Window type	U-value	SHGC		
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7		

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	bed 1 door	2100	920	NNE	Bedroom 1	No
ALM-002-01 A	bed 1	2100	1500	NNE	Bedroom 1	No
ALM-002-01 A	bed 2	2100	1300	ESE	Bedroom 2	No
ALM-002-01 A	bed 3	2100	800	ESE	Bedroom 3	No
ALM-002-01 A	living	2100	800	WNW	Kitchen/Living	No
ALM-002-01 A	lkitchen	2100	900	ESE	Kitchen/Living	No
ALM-002-01 A	balcony	2100	4000	NNE	Kitchen/Living	No
ALM-002-01 A	dining	2100	2100	NNE	Kitchen/Living	No

ID	Window type				U-value	SHGC
Roof windo	ow and skylight schedule					
ID	Roof window/ skylight	no. Area (m ²	²) Orientation	on Zone name		ndoor shade liffuser
External wa	all type					
Туре		Insulation				Wall wrap
1 : AFS - AFS 162mm (75mm Glasswool)		Rockwool I	Rockwool batt (k = 0.033) (R2.3)			No
External						
	all schedule	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
Wall type	All schedule S 162mm (75mm Glasswool)	Area (m ²) 7.8	Orientation	Zone name Bedroom 1	Fixed shade	Eaves
Wall type 1 : AFS - AFS						
Wall type 1 : AFS - AFS 1 : AFS - AFS	S 162mm (75mm Glasswool)	7.8	WNW	Bedroom 1	No	No
Wall type 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS	S 162mm (75mm Glasswool) S 162mm (75mm Glasswool)	7.8 3.3	WNW NNE	Bedroom 1 Bedroom 1	No Yes	No Yes
Wall type 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS	S 162mm (75mm Glasswool) S 162mm (75mm Glasswool) S 162mm (75mm Glasswool)	7.8 3.3 4.7	WNW NNE NNE	Bedroom 1 Bedroom 1 Bedroom 1	No Yes Yes	No Yes Yes
Wall type 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS	S 162mm (75mm Glasswool) S 162mm (75mm Glasswool) S 162mm (75mm Glasswool) S 162mm (75mm Glasswool)	7.8 3.3 4.7 8.9	WNW NNE NNE SSW	Bedroom 1 Bedroom 1 Bedroom 1 Bedroom 2	No Yes Yes No	No Yes Yes No

Certificate Number: WQGYD43H8J

Date of Certificate: 6 Jun 2019

★ Star rating: 7.9



Building Features

1 : AFS - AFS 162mm (75mm Glasswool)	1.5	NNE	Bedroom 3	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.1	ESE	Bedroom 3	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.3	SSW	ensuite 2	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	5.7	WNW	ensuite 1	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	0.6	SSW	ensuite 1	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	4.5	WNW	bath	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	4.4	SSW	bath	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	0.6	NNE	bath	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.2	SSW	laundry	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.7	WNW	entry	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	2.9	WNW	Kitchen/Living	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	1	NNE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	3.2	ESE	Kitchen/Living	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	0.9	NNE	Kitchen/Living	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	10.3	ESE	Kitchen/Living	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	16.4	NNE	Kitchen/Living	No	Yes

Internal wall type

Туре	Area (m ²)	Insulation
1 : AFS - AFS 162mm (75mm Glasswool)	5.2	Rockwool batt (k = 0.033) (R2.3)
2 : FR5 - Internal Plasterboard Stud Wall	92.8	

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	FR5 - 150mm concrete slab	15.1	Enclosed	R0.0	Tiles
Bedroom 2	FR5 - 150mm concrete slab	12.9	Enclosed	R0.0	Tiles
Bedroom 3	FR5 - 150mm concrete slab	10.9	Enclosed	R0.0	Tiles
ensuite 2	FR5 - 150mm concrete slab	3.3	Enclosed	R0.0	Tiles
ensuite 1	FR5 - 150mm concrete slab	4.7	Enclosed	R0.0	Tiles
bath	FR5 - 150mm concrete slab	3.5	Enclosed	R0.0	Tiles
laundry	FR5 - 150mm concrete slab	3	Enclosed	R0.0	Tiles
entry	FR5 - 150mm concrete slab	4.5	Enclosed	R0.0	Tiles
hallway	FR5 - 150mm concrete slab	5.6	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 150mm concrete slab	40.1	Enclosed	R0.0	Tiles

Certificate Number: WQGYD43H8J

Date of Certificate: 6 Jun 2019

★ Star rating: 7.9



Building Features

Ceiling type				
Location	Material		Added insulation	Roof space above
Ceiling penetratio	ns			
Location	Number Type	Width (mm)	Length (mm)	Seal/ unsealed
Ceiling fans				
Location	Number Diameter (mm)			
Roof type				
Material			Added insu	Ilation Roof colour
Slab:Slab - Suspende	0.0	medium		

Certificate Number: WQGYD43H8J

Date of Certificate: 6 Jun 2019

★ Star rating: 7.9



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Contact

Certificate Number: Y8KDINLL2G

Date of Certificate: 6 Jun 2019

★ Star rating: 7.3



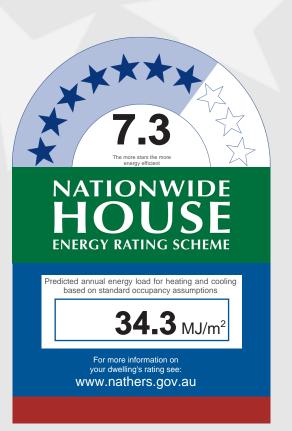
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	501, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Type:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	open		



Key construction	and	insulation	materials
(see following pages fo	r deta	ils)	

(see following pages for details)

Net floor area (m²)

Conditioned:

Garage:

TOTAL:

Unconditioned:

Plan documents

Plan ref/date:

Prepared by:

Construction:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Insulation:	Wall: As indicated
	Roof: As indicated
	Floor: As indicated
Glazing:	As indicated
	As indicated

110.8

113.4

2.6

Ceiling penetrations

(see following pages for details)

-	
Sealed:	0
Unsealed:	0
TOTAL:**	0

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Principal downlight type:

Compact fluorescent

Window selection default windows only

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https://www.fr5.com.au/QRCodeLand ing?PublicId=Y8KDINLL2G

Annual thermal

 (MJ/m^2)

Heating:

Cooling:

TOTAL:

Wolski Coppin Architecture

Project No. 21813

performance loads

17.3

34.3

17

Certificate Number: Y8KDINLL2G

Date of Certificate: 6 Jun 2019

★ Star rating: 7.3



Building Features

Windows type and performance value					
Window ID	Window type	U-value	SHGC		
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7		

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	Opening 60	2100	2700	NNE	Bedroom 1	No
ALM-002-01 A	Opening 63	2100	1500	WNW	Bedroom 3	No
ALM-002-01 A	Opening 62	2100	702	WNW	Bedroom 2	No
ALM-002-01 A	Opening 61	2100	1800	SSW	Bedroom 2	No
ALM-002-01 A	Opening 57	2100	2400	NNE	Kitchen/Living	No
ALM-002-01 A	Opening 64	2100	3000	WNW	Kitchen/Living	No
ALM-002-01 A	Opening 59	2100	3700	NNE	Kitchen/Living	No
ALM-002-01 A	Opening 58	2100	2720	WNW	Kitchen/Living	No

ID	Window type				U-value	SHGC
Roof windo	ow and skylight schedule					
ID	Roof window/ skylight	no. Area (m	²) Orientatio	on Zone name		ndoor shade liffuser
External wa	all type					
Туре		Insulation				Wall wrap
1 : AFS - AFS 162mm (75mm Glasswool)		Rockwool I	Rockwool batt (k = 0.033) (R2.3)			No
	all schedule	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
Wall type	all schedule S 162mm (75mm Glasswool)	Area (m ²) 10.5	Orientation	Zone name Bedroom 1	Fixed shade	Eaves Yes
Wall type 1 : AFS - AFS						
Wall type 1 : AFS - AFS 1 : AFS - AFS	S 162mm (75mm Glasswool)	10.5	ESE	Bedroom 1	No	Yes
Wall type 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS	S 162mm (75mm Glasswool) S 162mm (75mm Glasswool)	10.5 9.3	ESE NNE	Bedroom 1 Bedroom 1	No Yes	Yes Yes
Wall type 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS	S 162mm (75mm Glasswool) S 162mm (75mm Glasswool) S 162mm (75mm Glasswool)	10.5 9.3 8.8	ESE NNE ESE	Bedroom 1 Bedroom 1 Night 6	No Yes No	Yes Yes Yes
Wall type 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS 1 : AFS - AFS	S 162mm (75mm Glasswool) S 162mm (75mm Glasswool) S 162mm (75mm Glasswool) S 162mm (75mm Glasswool)	10.5 9.3 8.8 4.3	ESE NNE ESE ESE	Bedroom 1 Bedroom 1 Night 6 Entry	No Yes No No No	Yes Yes Yes Yes

Certificate Number: Y8KDINLL2G

Date of Certificate: 6 Jun 2019

★ Star rating: 7.3



Building Features

1 : AFS - AFS 162mm (75mm Glasswool)	0.7	NNE	Bedroom 3	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	4.5	WNW	Bedroom 3	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	12	SSW	Bedroom 3	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.4	ESE	Bedroom 3	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	8.2	WNW	Bedroom 2	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	8.4	SSW	Bedroom 2	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	7.6	NNE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	12.8	WNW	Kitchen/Living	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	1	NNE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	1.7	ESE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	11.1	NNE	Kitchen/Living	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	8.7	WNW	Kitchen/Living	Yes	Yes

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	107	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	FR5 - 125mm concrete slab	13.4	Enclosed	R0.0	Carpet
Night 5	FR5 - 125mm concrete slab	7	Enclosed	R0.0	Carpet
Night 6	FR5 - 125mm concrete slab	6.1	Enclosed	R0.0	Tiles
Entry	FR5 - 125mm concrete slab	4.9	Enclosed	R0.0	Tiles
Bath	FR5 - 125mm concrete slab	3.7	Enclosed	R0.0	Tiles
Laundry	FR5 - 125mm concrete slab	2.6	Enclosed	R0.0	Tiles
Bedroom 3	FR5 - 125mm concrete slab	12.9	Enclosed	R0.0	Carpet
Bedroom 2	FR5 - 125mm concrete slab	13.8	Enclosed	R0.0	Carpet
Kitchen/Living	FR5 - 125mm concrete slab	48.9	Enclosed	R0.0	Tiles

Ceiling type						
Location	Material		Added insulation	Roof space above		
Ceiling penetratio	ns					
Location	Number Type	Width (mm)	Length (mm)	Seal/ unsealed		

Certificate Number: Y8KDINLL2G

Date of Certificate: 6 Jun 2019

★ Star rating: 7.3



Building Features

Ceiling fans		
Location Number Diameter (mm)		
Roof type		
Material	Added insulation	Roof colour
Slab:Slab - Suspended Slab : 125mm: 125mm Suspended Slab	0.0	medium

Certificate Number: Y8KDINLL2G

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★ Star rating: 7.3



Additional information

Explanatory notes

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Contact

Certificate Number: YIUA6AOMWJ

Date of Certificate: 6 Jun 2019

★ Star rating: 5.8



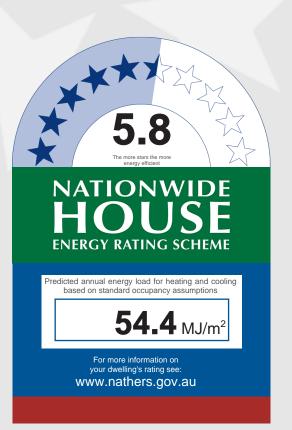
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	106, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Type:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		



Key construction and insulation materials

(see following pages for details)

Construction:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Insulation:	Wall:	As indicated
	Roof:	As indicated
	Floor:	As indicated
Glazing:	As inc	licated
	As inc	dicated

Ceiling penetrations

(see following pages for details)

-	
Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Net floor area (m²)		Annual the	
Conditioned: Unconditioned:	48.1 3.1	(MJ/m ²)	
Garage: TOTAL:	- 51.2	Heating: Cooling: TOTAL:	34 19 54

Plan documents

Plan ref/date: Project No. 21813 Prepared by: Wolski Coppin Architecture

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

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Scan to access this certificate online and confirm this is valid.



https://www.fr5.com.au/QRCodeLand ing?PublicId=YIUA6AOMWJ

34.7

19.7

54.4

Certificate Number: YIUA6AOMWJ

Date of Certificate: 6 Jun 2019

★ Star rating: 5.8



Building Features

Windows type and performance value					
Window ID	Window type	U-value	SHGC		
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7		

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	21.085SW	2100	850	SSW	Bedroom	No
ALM-002-01 A	21.045FW	2100	448	ESE	Bedroom	No
ALM-002-01 A	21.045FW	2100	421	ESE	Bedroom	No
ALM-002-01 A	21.045FW	2100	450	ESE	Bedroom	No
ALM-002-01 A	Opening 9	2100	2810	ESE	Kitchen/Living	No

Roof windows and skylight type and performance value					
ID	Window type	U-value SHGC			
	w and skylight schedule				
ID	Roof window/ skylight no. Area (m ²) Orientation Zone name	Outdoor Indoor shade/ shade diffuser			

Туре	Insulation				Wall wrap
1 : AFS - AFS 200mm (75mm Glasswool)	Rockwool	batt (k = 0.03	3) (R2.3)		No
External wall schedule					
Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : AFS - AFS 200mm (75mm Glasswool)	2.4	SSW	Bedroom	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	7.7	ESE	Bedroom	No	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	8.8	NNE	Bedroom	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.8	WNW	Bedroom	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	1.3	NNE	Kitchen/Living	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	20	SSW	Kitchen/Living	Yes	No
1 : AFS - AFS 200mm (75mm Glasswool)	7.3	ESE	Kitchen/Living	Yes	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	6.5	NNE	Kitchen/Living	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.3	WNW	Bathroom	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	5.5	NNE	Bathroom	No	No

Certificate Number: YIUA6AOMWJ

Date of Certificate: 6 Jun 2019

★ Star rating: 5.8



Building Features

1 : AFS - AFS 200mm (75mm Glasswool)	1.3	ESE	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.8	NNE	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	5	WNW	Entry	No	Yes
1 : AFS - AFS 200mm (75mm Glasswool)	0.6	SSW	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	4.1	WNW	Entry	No	No
1 : AFS - AFS 200mm (75mm Glasswool)	3.1	SSW	Entry	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	26.1	

Floors					
Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom	FR5 - 125mm concrete slab	11.1	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 125mm concrete slab	31.5	Enclosed	R0.0	Tiles
Bathroom	FR5 - 125mm concrete slab	3.1	Enclosed	R0.0	Tiles
Entry	FR5 - 125mm concrete slab	5.5	Enclosed	R0.0	Tiles

Ceiling type				
Location	Material		Added insulation	Roof space above
Ceiling penetra	tions			
Location	Number Type	Width (mm)	Length (mm)	Seal/ unsealed
Ceiling fans				
Location	Number Diameter (mm)			

Roof type		
Material	Added insulation	Roof colour
Slab:Slab - Suspended Slab : 125mm: 125mm Suspended Slab	0.0	medium

Certificate Number: YIUA6AOMWJ

Date of Certificate: 6 Jun 2019

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Explanatory notes

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Contact

Certificate Number: ZOO3BNTV23

Date of Certificate: 6 Jun 2019

★ Star rating: 6.4



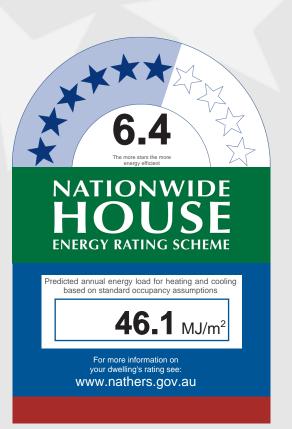
Assessor details

Accreditation number:	VIC/BDAV/14/1658
Name:	Duncan Hope
Organisation:	Senica Consultancy Group
Email:	duncan@senica.com.au
Phone:	61280067784
Declaration of interest:	Employed by organisation constructing the building
Software:	FirstRate5: 5.2.10b (3.13)
AAO:	BDAV

Overview

Dwelling details

Address: Suburb:	403, 26 Whistl MANLY	er Street	
State:	NSW	Postcode:	2095
Туре:	New Home	NCC Class:	Class 2
Lot/DP		NatHERS	
number:	-	climate zone:	56
Exposure:	suburban		



Key	construction	and	insulation	materials
(see t	ollowing pages for	r detai	le)	

(see following pages for details)

Construction:	Wall: As indicated	
	Roof: As indicated	
	Floor: As indicated	
Insulation:	Wall: As indicated	
	Roof: As indicated	
	Floor: As indicated	
Glazing:	As indicated	
	As indicated	

Ceiling penetrations

(see following pages for details)

-	
Sealed:	0
Unsealed:	0
TOTAL:**	0

**NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. If this number is exceded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Principal downlight type:

Compact fluorescent

Net floor area (Ann	
Conditioned: Unconditioned:	90 3.7	(MJ/
Garage: TOTAL:	- 93.7	Heati Cooli TOTA

Annual thermal performance loads (MJ/m ²)					
Heating:	24.7				
Cooling:	21.4				
TOTAL:	46.1				

Plan documents

Plan ref/date:Project No. 21813Prepared by:Wolski Coppin Architecture

Window selection default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

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Certificate Number: **ZOO3BNTV23**

Date of Certificate: 6 Jun 2019

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Building Features

Windows type an	d performance value		
Window ID	Window type	U-value	SHGC
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	bed 1	2100	2400	WNW	Bedroom 1	No
ALM-002-01 A	bed 2	2100	1600	SSW	Bedroom 2	No
ALM-002-01 A	study	2100	900	SSW	study	No
ALM-002-01 A	balcony	2100	3000	WNW	Kitchen/Living	No
ALM-002-01 A	living	2100	450	NNE	Kitchen/Living	No
ALM-002-01 A	dining	2100	2800	WNW	Kitchen/Living	No
ALM-002-01 A	Opening 27	2100	316	WNW	Kitchen/Living	No
ALM-002-01 A	Opening 28	2100	363	SSW	Kitchen/Living	No

Roof window	v and skylight schedule		
ID	Roof window/ skylight no. Area (m ²) Orientation Zone name	Outdoor shade	Indoor shade/ diffuser

Туре	Insulation	Wall wrap
1 : AFS - AFS 162mm (75mm Glasswool)	Rockwool batt (k = 0.033) (R2.3)	No
2 : FR5 - Internal Plasterboard Stud Wall		No

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : AFS - AFS 162mm (75mm Glasswool)	9.8	NNE	Bedroom 1	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	7.3	WNW	Bedroom 1	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	6	SSW	Bedroom 2	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	8.6	ESE	Bedroom 2	No	Yes
2 : FR5 - Internal Plasterboard Stud Wall	0.7	NNE	Bedroom 2	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	5.8	SSW	study	No	No

Certificate Number: **ZOO3BNTV23**

Date of Certificate: 6 Jun 2019

★ Star rating: 6.4



Building Features

1 : AFS - AFS 162mm (75mm Glasswool)	7.3	ESE	study	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	4.7	NNE	ensuite	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.2	NNE	laundry	No	No
2 : FR5 - Internal Plasterboard Stud Wall	0.7	SSW	bath	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	4.5	ESE	bath	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	4.8	NNE	bath	No	No
1 : AFS - AFS 162mm (75mm Glasswool)	3.7	ESE	entry	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	8.3	WNW	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	2.6	NNE	Kitchen/Living	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	8.2	WNW	Kitchen/Living	No	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	2	SSW	Kitchen/Living	Yes	No
1 : AFS - AFS 162mm (75mm Glasswool)	1.3	WNW	Kitchen/Living	Yes	Yes
1 : AFS - AFS 162mm (75mm Glasswool)	12	SSW	Kitchen/Living	No	No

Internal wall type

Туре	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	77.8	

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
Bedroom 1	FR5 - 150mm concrete slab Lined	13.6	Enclosed	R0.0	Carpet
Bedroom 2	FR5 - 150mm concrete slab Lined	10.5	Enclosed	R0.0	Carpet
study	FR5 - 150mm concrete slab Lined	10.3	Enclosed	R0.0	Carpet
ensuite	FR5 - 150mm concrete slab Lined	3.8	Enclosed	R0.0	Tiles
laundry	FR5 - 150mm concrete slab Lined	2.5	Enclosed	R0.0	Tiles
bath	FR5 - 150mm concrete slab Lined	3.7	Enclosed	R0.0	Tiles
entry	FR5 - 150mm concrete slab Lined	7.6	Enclosed	R0.0	Tiles
Kitchen/Living	FR5 - 150mm concrete slab Lined	41.7	Enclosed	R0.0	Tiles

Ceiling type						
Location	Material		Added insulation	Roof space above		
Ceiling penetrations						
Location	Number Type	Width (mm)	Length (mm)	Seal/ unsealed		

Certificate Number: **ZOO3BNTV23**

Date of Certificate: 6 Jun 2019

★ Star rating: 6.4



Building Features

Ceiling fans			
Location	Number Diameter (mm)		
Roof type			
Material		Added insulation	Roof colour
Slab:Slab - Suspended Slab : 150mm: 150mm Suspended Slab		0.0	medium

Certificate Number: ZOO3BNTV23

Date of Certificate: 6 Jun 2019

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